Foreign Administration

International Ferry Vehicles

Part One

Diagram Book No. 340

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PREFACE

A complete list of Vehicle Diagram Books is shown below, together with new or revised reference numbers and the colours of the respective book covers.

REVISED VEHICLE DIAGRAM BOOK NUMBERS

1 .

Vehicle Type	Diagram Book No.	Colour of Cover	Vehicle Type	Diagram Book No.	Colour of Cover
<u>Locomotives :- Diagram Book</u>	Series 100		<u> Freight Vehicles :- Diagram</u>	<u>Book Series 300</u>	
Diesel Electric Main Line Locomotives	100 (Prev.No.MT/25)	Red	Privately Owned Freight Vehicles	300	White
Electric Main Line Locomotives	110 (Prev.No.MT/26)	Green	Privately Owned International Ferry Vehicle	310	White
Diesel Shunting Locomotives	120 (Prev.No.MT/27)	Yellow	BR Revenue Freight Vehicles	320	Buff
Coaching & Multiple Unit Sto	ock :-Diagram Book S	Series 200	BR International Ferry	330	Buff
Loco Hauled Coaches	200	Orange	Vehicles Foreign Administration Vehicles	340	Buff
Electric Multiple Units	210	Blue			
Diesel Multiple Units	220	Pink	BR Service Department Vehicles	350	Buff
Diesel Electric Multiple Units (Inc.HST)	230	Pink			
•	0.40	0	ON Track Plant:- Diagra	am Book Series 4	.00 Red
Non-Passenger Carrying Coaching Stock(NPCCS)	240	Orange	Rail Cranes & Tracklayi (Pro	ing Vehicles 400 eviously No MT/2) 212)

Issued By:-

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Director of Mechanical & Electrical Engineering, British Railways Board, Railway Technical Centre, DERBY

JANUARY 1989

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	Issue 1 Country 54	Exchange condition 21. <u>Vehicle Numbers</u> 21 54 2380 000 - 21 54 2380 099.		
	(CSD)			
/ 1	czechoslovak state railways (CSD)	Description 40t 2 axle van		
	Diagram Book 340 CZECHOSLOVAK ST	<u>VANS</u> Diagram ILE353		

<u>300</u> es (TT-TU)		REASON FOR CHANGE	First Issue	First Issue	Additional diagram	endorse the revision record at the front of the the revision letter has been actioned, it shall wublication.	Issued by: DM & EE RTC. DERBY.	•
VEHICLE DIAGRAM BOOK No 300 Private Owner Freight Vehicles (Part 3)	Revision 32	ACTION	Insert	Insert	Insert	After incorporating the above, endorse the revision record at the fron diagram book accordingly. When the revision letter has been actioned, be stored at the front of the publication.	2 (BC)	
		DESIGN CODE	TT018K	TU005B	Index	After incorporating diagram book accord be stored at the fr	Date : 25.7.90. Ref. : TBF 172-125-2(BC) Tel. : 3507	

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Issue 1	Country 70	Exchange Condition 23. <u>Vehicle Numbers</u> at 23 70 4424 001 - 23 70 4424 005.	
3ook 340	BRITISH RAILWAYS (BR)	<u>Description</u> 40t 2 axle container flat	
Diagram Book 340	BRITISH	FLAT WAGONS Diagram IPE578	

Ч Issue

> (RENFE) SPANISH STATE RAILWAYS

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24S2E/3732g/16

Issue 1	Country 72	Exchange Condition 21.	<u>Vehicle Numbers</u> 21 72 2390 000 - 21 72 2390 064.	21 72 2191 000 - 21 72 2191 099.	· ·					
ok 340	YUGOSLAV RAILWAYS (JZ)		<u>Description</u> 40t 2 axle van	36t 2 axle van						
Diagram Book 340	YUGOSLAV	VANS	Ulagram ILE415	IME199						

Issue 1 Country 74	Exchange Condition 21. <u>Vehicle Numbers</u> 21 74 2140 000 - 21 74 2140 099.			
Diagram Book 340 SWEDISH STATE RAILWAYS (SJ)	VANS Diagram <u>Description</u> ILE237 36t 2 axle van			

Diagram B	Book 340	Issue 1
GERMAN	FEDERAL RAILWAY (DB)	Country 80
TANK WAGONS	SN	Exchange Conditions 21,23,24,33,34.
Diagram	Description	Vehicle Numbers
ICE001	32t 2 axle tank wagon	23 80 7197 401
ICE002	32t 2 axle tank wagon	23 80 7391 722
ICE008	33t 2 axle tank wagon	23 80 7490 000 & 23 80 7490 001.
ICE038	40t 2 axle tank wagon	23 80 7391 721.
ICE064	32t 2 axle tank wagon	23 80 7288 000.
ICE072	40t 2 axle tank wagon	23 80 7197 402.
ICE091	40t 2 axle tank wagon	24 80 7390 400 - 24 80 7390 404.
ICE109	40t 2 axle tank wagon	23 80 7391 700.
ICE110	40t 2 axle tank wagon	23 80 7391 701.
ICE111	40t 2 axle tank wagon	23 80 7391 702.
ICE112	40t 2 axle tank wagon	23 80 7398 600.
ICE141	33t 2 axle tank wagon	23 80 7191 701 & 23 80 7191 702, 23 80 7391 718 - 23 80 7391 720.
ICE154	31t 2 axle tank wagon	23 80 7190 004, 23 80 7190 006, 23 80 7190 008, 23 80 7190 009, 23 80 7197 008, 23 80 7199 009, 23 80 7197 000, 23 80 7199 009, 23 80 7199 002, 23 80 7199 009, 23 80 7199 002, 23 80 7199 017, 23 80 7199 012, 23 80 7199 017, 23 80 7186 003, 23 80 7286 005, 23 80 7287 000, 23 80 7287 001, 23 80 7289 000, 23 80 7289 001,
ICE158	32t 2 axle tank wagon	23 80 7277 015 - 23 80 7277 039.
ICE160	30t 2 axle tank wagon	23 80 7197 400.
ICE200	31t 2 axle tank wagon	23 80 7394 400.

GERMAN FEDERAL RAILWAY (DB)

Country 80

Issue 1

TANK WAGONS	SI	Exchange Conditions 21,23,24,33,34.
Diagram	Description	
ICE202	32t 2 axle tank wagon	23 80 7277 001, 23 80 7277 003, 23 80 7277 004, 23 80 7277 006, 23 80 7277 007, 23 80 7277 009 - 23 80 7277 012
ICE217	26t 2 axle tank wagon	- 23 80 7395
ICE224	37t 2 axle tank wagon	, 23 80 7395
ICE227	40t 2 axle tank wagon	23 80 7398 602.
ICE243	33t 2 axle tank wagon	23 80 7491 400, 23 80 7491 401.
ICE269	40t 2 axle tank wagon	23 80 739 8 017.
ICE273	40t 2 axle tank wagon	23 80 7391 000 - 23 80 7391 004, 23 80 7398 000 - 23 80 7398 005.
ICE274	40t 2 axle tank wagon	23 80 7391 400 - 23 80 7391 402.
ICE278	40t 2 axle tank wagon	23 80 7191 703, 23 80 7191 704.
ICE281	40t 2 axle tank wagon	23 80 7398 006, 23 80 7398 007.
ICE282	36t 2 axle tank wagon	23 80 7191 700.
ICE283	40t 2 axle tank wagon	23 80 7390 417.
ICE289	40t 2 axle tank wagon	23 80 7390 405.
ICE302	40t 2 axle tank wagon	23 80 7391 016.
ICE307	40t 2 axle tank wagon	23 80 7394 000, 23 80 7394 001.
ICE308	40t 2 axle tank wagon	23 80 7734 005.
ICE314	40t 2 axle tank wagon	23 80 9185 000 - 23 80 9185 006.
ICE319	40t 2 axle tank wagon	23 80 7398 603.
ICE321	40t 2 axle tank wagon	23 80 7391 012, 23 80 7391 013.

24S2E/3732g/20

Diagram Bc	Book 340	Issue 1
GERMAN F	FEDERAL RAILWAY (DB)	Country 80
TANK WAGONS	SI	Exchange Conditions 21,23,24,33,34.
Diagram	Description	Vehicle Numbers
ICE323	40t 2 axle tank wagon	23 80 7390 406, 23 80 7390 407.
ICE333	40t 2 axle tank wagon	23 80 9185 000 - 23 80 9185 009.
ICE335	40t 2 axle tank wagon	23 80 7397 001 - 23 80 7397 005.
ICE336	40t 2 axle tank wagon	23 80 7391 401 - 23 80 7391 405, 23 80 7391 703 - 23 80 7391 707.
ICE350	36t 2 axle tank wagon	23 80 7394 020. 23 80 7492 000, 23 80 7492 001.
ICE351	40t 2 axle tank wagon	23 80 7398 000.
ICE352	40t 2 axle tank wagon	23 80 7191 400.
ICE355	40t 2 axle tank wagon	23 80 7391 017 - 23 80 7391 023, 23 80 7391 049 - 23 80 7391 051, 23 80 7491 000 - 23 80 7491 012.
ICE356	40t 2 axle tank wagon	23 80 7391 024, 23 80 7391 025.
ICE357	40t 2 axle tank wagon	23 80 7397 000.
ICE365	40t 2 axle tank wagon	23 80 7197 029.
ICE367	32t 2 axle tank wagon	23 80 7287 006.
ICE371	40t 2 axle tank wagon	23 80 7398 400.
ICE372	40t 2 axle tank wagon	23 80 7391 026 - 23 80 7391 034.
ICE376	36t 2 axle tank wagon	23 80 7187 000.
ICE378	40t 2 axle tank wagon	23 80 7391 046.
ICE444	40t 2 axle tank wagon	23 80 7397 401.
ICE447	40t 2 axle tank wagon	23 80 7391 047, 23 80 7391 048.
ICE451	40t 2 axle tank wagon	23 80 7398 027 - 23 80 7398 036.

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Book	
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GERMAN FEDERAL RAILWAY (DB)

Country 80

Issue

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TANK WAGONS	SN	Exchange Conditions 21,23,24,33,34.
Diagram	Description	Vehicle Numbers
ICE463	40t 2 axle tank wagon	23 80 7398 037 - 23 80 7398 046.
ICE469	40t 2 axle tank wagon	23 80 7391 052 - 23 80 7391 056.
ICE472	80t bogie tank wagon	33 80 7995 001, 33 80 7995 002.
ICE489	40t 2 axle tank wagon	23 80 7391 057.
ICE500	40t 2 axle tank wagon	23 80 7398 053 - 23 80 7398 062.
ICE508	80t bogie tank wagon	33 80 7895 010 - 33 80 7895 012.
ICE509	40t 2 axle tank wagon	23 80 7394 010 - 23 80 7394 019.
ICE511	80t bogie tank wagon	33 80 7995 003 - 33 80 7995 012.
ICE517	80t bogie tank wagon	33 80 7895 400, 33 80 7895 401.
ICE519	80t bogie tank wagon	33 80 7998 000 - 33 80 7998 004.
ICE524	80t bogie tank wagon	33 80 7995 500 - 33 80 7995 515 .
ICE527	80t bogie tank wagon	33 80 7891 002, 33 80 7891 003.
ICE534	80t bogie tank wagon	33 80 7794 000 - 33 80 7794 004.
ICE544	40t 2 axle tank wagon	21 80 7197 019 - 21 80 7197 028.
ICE547	40t 2 axle tank wagon	23 80 7398 066.
ICE548	80t bogie tank wagon	33 80 7998 000 - 33 80 7998 004.
ICE558	40t 2 axle tank wagon	24 80 7497 000 - 24 80 7497 009.
ICE563	40t 2 axle tank wagon	23 80 7391 058, 23 80 7391 059.
ICE564	40t 2 axle tank wagon	24 80 7495 000 - 24 80 7495 009.
ICE565	80t bogie tank wagon	33 80 7996 000.
ICE571	40t 2 axle tank wagon	24 80 7393 000 - 24 80 7393 009.
ICE572	40t 2 axle tank wagon	23 80 7398 077.

GERMAN FE	GERMAN FEDERAL RAILWAY (DB)	Country 80
TANK WAGONS		Exchange Conditions 21,23,24,33,34.
Diagram	Description	Vehicle Numbers
ICE577	40t 2 axle tank wagon	23 80 7491 013 - 23 80 7491 017.
ICE579	90t bogie tank wagon	34 80 7896 000 - 34 80 7896 019.
ICE580	40t 2 axle tank wagon	23 80 7495 010 - 23 80 7495 019.
ICE588	40t 2 axle tank wagon	23 80 7391 070.
ICE594	40t 2 axle tank wagon	23 80 7395 400 - 23 80 7395 405.
ICE600	33t 2 axle tank wagon	23 80 7490 000, 23 80 7490 001.
ICE638	32t 2 axle tank wagon	23 80 7397 400.
ICE666	40t 2 axle tank wagon	23 80 7498 000 - 23 80 7498 002.
ICE674	90t bogie tank wagon	33 80 7794 005 - 33 80 7794 014, 33 80 7794 017 - 33 80 7794 026.
ICE676	80t bogie tank wagon	34 80 7899 000 - 34 80 7899 009.
ICE679	90t bogie tank wagon	33 80 7794 027 - 33 80 7794 030, 33 80 7794 035, 33 80 7794 036.
ICE681	80t bogie tank wagon	33 80 7794 015, 33 80 7794 016.
ICE687	45t 2 axle tank wagon	23 80 7495 020 - 23 80 7495 022.

Issue 1

Issue 1

GERMAN FEDERAL RAILWAY (DB)

070, 082, 149. × × 009, 160, 170, 209. 098 019 049 085 × • 83 139. 579 699. 120 734, 014. 049 501 .660 060. 80 . 43 2140 2140 2140 5795 2191 2191 2191 2191 Country 2796 2797 2797 2797 2797 97 2797 2384 2797 2798 ഹ ω 2794 4741 279 2398 m 27 m Numbers 21 80 Conditions 21221 21 2222 2222 33 ω mmmm m 43 833 83 ε m 83 m m m œ œ ώ N 2 1 1 1 1 1 1 1 1 1 1 1 1 1 Φ 001, 031, 055, 088, 1 - F ł 000 072 084 Vehic1(000 . 000 500 000 011 161 172 000 650 700 000 000 000 000 500 000 001 2140 2140 2140 5795 2191 2191 2191 2191 2797 2797 2797 2797 2796 384 385 97 2797 4743 2797 2798 4746 2795 2398 94 4741 Exchange 27 5 NN N 80 21221 21 2121221 33 m m m m m83 **4**3 43 m mm 83 83 23 23 m m mmœœ œ 00 00 ω van capacity van Wall van xle vans, coupled door sliding door van van van van high axle van van van van all van van van wall Description 2 Ø axle axle permanently axle bogie axl 2axle Ð ወ bogie bogie bogie bogie bogie bogie \sim bogi bogi sliding 45t N \sim 2 \sim 39t 40t 33t 80t 80t 80t 80t 80t 80t 80t 5 90t 90t 5t × 4 2 4 Diagram IME006 IME277 **IME583** IPE471 **IPE476 IPE481** IPE512 IPE668 IPE690 IPE514 IPE521 51 IPE576 IPE593 IPE663 VANS IPES

24S2E/3732g/24

	OPEN WAGONS Exchange Condition 21. Diagram Description Diagram Description IFE259 40t 2 axle open wagon 21 80 4142 025 - 21 80 4142 154. IFE568 40t 2 axle lowsided open wgn 21 80 4142 000 - 21 80 4142 024.	<u>Jons</u> <u>Description</u> 40t 2 axle open wagon 40t 2 axle lowsided open wgn	<u>Jours</u> <u>Description</u> 40t 2 axle open wagon 40t 2 axle lowsided open wgn	Diagram Book 340 GERMAN FEDERAL	agram Book 340 GERMAN FEDERAL RAILWAY (DB)	Issue 1 Country 80
	40t 2 axle open wagon 40t 2 axle lowsided open wgn	40t 2 axle open wagon 40t 2 axle lowsided open wgn	40t 2 axle open wagon 40t 2 axle lowsided open wgn	Diagram	Description	Vehicle Numbers
Description	40t 2 axle lowsided open wgn	40t 2 axle lowsided open wgn	40t 2 axle lowsided open wgn	'E259	40t 2 axle open wagon	21 80 4142 025 - 21 80 4142 154.
<u>Description</u> 40t 2 axle open wagon				E568	40t 2 axle lowsided open wgn	21 80 4142 000 - 21 80 4142 024.

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(BB) GERMAN FEDERAL RAILWAY

Country

23,26,33,43

Condition

Vehicle Numbers

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FLAT WAGONS		Exc	Exchange	ige C
Diagram	Description			Ve
IPE222	30t 2 axle container flat	23	80	4141
IPE443	40t 2 axle covered wagon	23	80	5798
IPE501	40t 2 axle container flat	43	80	4141
IPE502	80t bogie flat	26	80	0498
IPE557	90t bogie flat	33	80	4747
IPE566	39t 2 axle container flat	43	80	9195
IPE670	90t bogie flat	33	80	80 4737

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ERAL RALLMAY (DB) Escription 90t telescopic hood coil carrier	
d coil	

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Diagram Book 340	0k 340	Issue 1
AUSTRIAN	AUSTRIAN FEDERAL RAILWAYS (OBB)	Country 81
TANK WAGONS		Exchange condition 23.
Diagram	Description	Vehicle Numbers
ICE368	36t 2 axle tank wagon	23 81 7204 050, 23 81 7204 057.
ICE669	40t 2 axle tank wagon	23 81 7391 000, 23 81 7391 001.

ITALIAN S	ITALIAN STATE RAILWAYS (FS)	Country 83
TANK WAGONS		Exchange conditions 21,23.
Diagram	Description	Vehicle Numbers
ICE079	32t 2 axle tank wagon	21 83 7288 000.
ICE142	36t 2 axle tank wagon	23 83 7197 016 & 23 83 7197 017.
ICE170	35t 2 axle tank wagon	23 83 7197 008 - 23 83 7197 015.
ICE177	36t 2 axle tank wagon	23 83 7190 003 - 23 83 7190 007, 23 83 7288 001.
ICE221	36t 2 axle tank wagon	23 83 7190 000 - 23 83 7190 002, 23 83 7197 018 - 23 83 7197 021.
ICE225	40t 2 axle tank wagon	21 83 7197 022, 21 83 7197 023.
ICE230	40t 2 axle tank wagon	23 83 7197 037, 23 83 7197 038.
ICE261	36t 2 axle tank wagon	23 83 7197 030 - 23 83 7197 036.
ICE263	40t 2 axle tank wagon	23 83 7197 000 - 23 83 7197 007.
ICE470	40t 2 axle tank wagon	23 83 7190 008 - 23 83 7190 031.
ICE595	46t 2 axle tank wagon	23 83 7397 900.

Diagram Book 340

Issue 1

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24S2E/3732g/29

ITALIAN STATE RAILWAYS (FS)

Country 83

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Issue

VANS		Exchange conditions 03,04,06,11,21,31.
Diagram	Description	Vehicle Numbers
IIE329	40t 2 axle van	21 83 2382 000 - 21 83 2382 299.
IIE331	36t 2 axle refrigerator van	11 83 8092 900 - 11 83 8092 99 9 .
IIE332	36t 2 axle refrigerator van	11 83 8090 000 - 11 83 8090 049.
IIE348	40t 2 axle refrigerator van	04 83 8088 000 - 04 83 8088 024, 04 83 8092 200 - 04 83 8092 482.
IIE375	40t 2 axle refrigerator van	03 83 8089 000 - 03 83 8089 499, 03 83 8089 680 - 03 83 8089 979.
IIE418	40t 2 axle refrigerator van	06 83 8083 700 - 06 83 8083 750.
IIE452	40t 2 axle refrigerator van	04 83 8091 000, 04 83 8091 001.
IIE590	40t 2 axle refrigerator van	04 83 8088 000 - 04 83 8088 049.
IIE591	40t 2 axle refrigerator van	03 83 8087 000 - 03 83 8087 029.
ILE553	80t horie tran	
	504	31 83 2/9/ 000 - 31 83 2797 199.
ILE653	40t 2 axle van	21 83 2382 300 - 21 83 2382 699, 21 83 2388 000 - 21 83 2388 049.

SWISS FEDERAL RAILWAYS (SBB/CFF)

Country 85

Issue 1

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TANK WAGONS		Exchange conditions 23,33.
Diagram	Description	Vehicle Numbers
ICE366	36t 2 axle tank wagon	23 85 7492 200, 23 85 7492 201, 23 85 7492 700.
ICE488	40t 2 axle tank wagon	23 85 7397 750, 23 85 7397 751.
ICE493	40t 2 axle tank wagon	23 85 7398 500 - 23 85 7398 521.
ICE499	40t 2 axle tank wagon	23 85 7390 500 - 23 85 7390 567.
ICE532	80t bogie tank wagon	33 85 7995 500 - 33 85 7995 505.

FRENCH	FRENCH NATIONAL RAILWAYS (SNCF)	Country 87
TANK WAGONS	ß	Exchange Conditions 23,33,34.
Diagram	Description	cle Numbers
ICE081	40t 2 axle tank wagon	1
ICE116	30t 2 axle tank wagon	23 87 7390 500.
ICE207	36t 2 axle tank wagon	23 87 7191 500.
ICE272	40t 2 axle tank wagon	23 87 7191 020.
ICE279	40t 2 axle tank wagon	23 87 7191 022.
ICE280	40t 2 axle tank wagon	23 87 7191 023.
ICE309	40t 2 axle tank wagon	23 87 7397 000 - 23 87 7397 002.
ICE315	36t 2 axle tank wagon	23 87 7190 501 - 23 87 7190 508.
ICE316	40t 2 axle tank wagon	
ICE318	40t 2 axle tank wagon	23 87 7191 023.
ICE327	40t 2 axle tank wagon	23 87 7390 005 - 23 87 7390 007.
ICE338	40t 2 axle tank wagon	23 87 7395 000.
ICE361	40t 2 axle tank wagon	23 87 7390 514.
ICE362	40t 2 axle tank wagon	23 87 7390 507.
ICE363	40t 2 axle tank wagon	23 87 7390 504.
ICE373	40t 2 axle tank wagon	23 87 7391 001 - 23 87 7391 004.
ICB394	80t bogie tank wagon	33 87 7895 000 - 33 87 7895 006.
ICE428	80t bogie tank wagon	33 87 7890 555 - 33 87 7890 56 4 .
ICE429	80t bogie tank wagon	33 87 7890 565 - 33 87 7890 58 4 .
ICE432	80t bogie tank wagon	33 87 7890 613 - 33 87 7890 616.
ICE440	80t bogie tank wagon	7890
ICE441	80t bogie tank wagon	33 87 7890 611, 33 87 7890 612.

24S2E/3732q/32

Diagram Book 340

Issue 1

FRENCH N	FRENCH NATIONAL RAILWAYS (SNCF)	Country 87
TANK WAGONS	Ø	Exchange Conditions 23,33,34.
Diagram	Description	Vehicle Numbers
ICE446	80t bogie tank wagon	33 87 7890 520 - 33 87 7890 554, 33 87 7890 589 - 33 87 7890 598.
ICE454	80t bogie tank wagon	34 87 7890 585 - 34 87 7890 588.
ICE456	80t bogie tank wagon	34 87 7890 515, 34 87 7890 516, 34 87 7890 518, 34 87 7890 519.
ICE457	80t bogie tank wagon	33 87 7890 500 - 33 87 7890 514.
ICE460	40t 2 axle tank wagon	23 87 7390 515, 23 87 7390 516.
ICE477	40t 2 axle tank wagon	23 87 7191 028 - 23 87 7191 034.
ICE478	40t 2 axle tank wagon	23 87 7191 025 - 23 87 7191 027.
ICE492	40t 2 axle tank wagon	23 87 7491 000.
ICE496	80t bogie tank wagon	33 87 7992 000 - 33 87 7992 015.
ICE498	80t bogie tank wagon	33 87 7995 000 - 33 87 7995 002.
ICE507	80t bogie tank wagon	33 87 7896 000.
ICE510	80t bogie tank wagon	33 87 7996 000 - 33 87 7996 007.
ICE513	80t bogie tank wagon	33 87 7996 008 - 33 87 7996 014.
ICE516	80t bogie tank wagon	33 87 7996 030 - 33 87 7996 039.
ICE522	80t bogie tank wagon	33 87 7996 015 - 33 87 7996 029.
ICE525	80t bogie tank wagon	33 87 7896 001 - 33 87 7896 007.
ICE530	80t bogie tank wagon	34 87 7899 000.
ICE533	80t bogie tank wagon	33 87 7896 008 - 33 87 7896 011.
ICE536	80t bogie tank wagon	34 87 7899 010 - 34 87 7899 014.
ICE539	80t bogie tank wagon	33 87 7899 003 - 33 87 7899 009.
ICE541	80t bogie tank wagon	33 87 7896 012 - 33 87 7896 016.

24S2E/3732q/33

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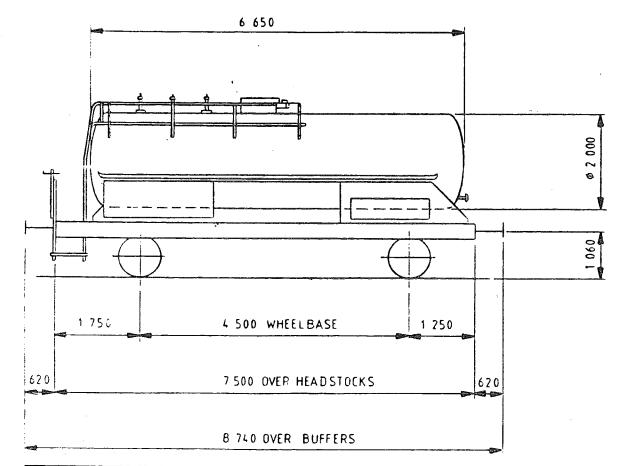
Diagram Book 340

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

Issue 1

401 GLW 2 AXLE TANK

	A	E	C	D			TOPS INFO	DRMATION				
1	18.71	22.7	26.7		AARKND	OPERATING	SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
5 1	18.71	22.7	22.7		CARKND	60 mile/h UP TO	Di toma CINA	61 FORCE UP TO	2010	LENGTH	(GLW)	SHEET
			1	1	ICBB	50 mile/h ABOVE	36 tonne GLW	151 FORCE ABOVE	201 G L W	4	6	



OVER LAMP BRACKETS

2 4 4 0

ICE 112

TARE -	13 300 Kg
CAPACITY, WEIGHT-	26.71
CAPACITY, VOLUME-	19ni ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARPGT. DRG. No	-H7596-7

BRAKE -	AIR & VAC THRO PIPE
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C:
BUFFERS -	HYDRAULIC Ø 370 HD
WHEELS -	¢1 000
JOURNALS -	¢ 130

YPE -	Zcefs
NAGON	No23 80 7398 600
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UILDER	- HULS RECKLING HAUSEN

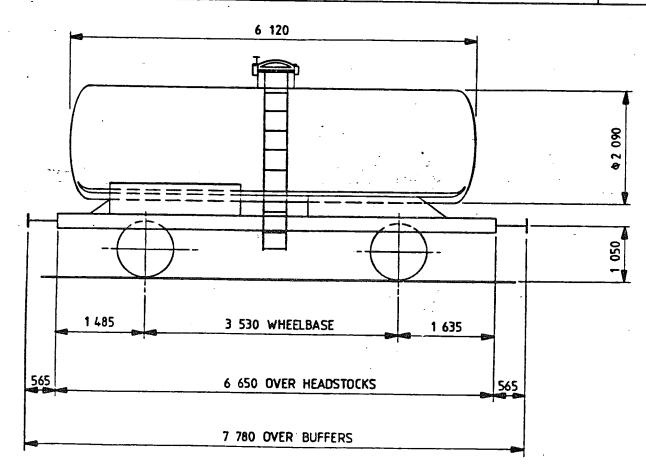
ISSUE 1

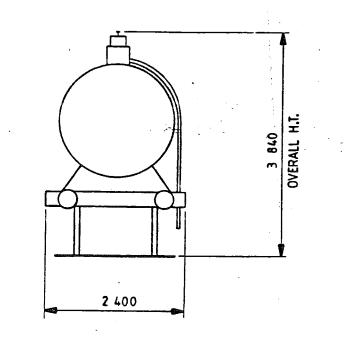
401 GLW 2 A

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301. GLW 2 AXLE TANK

		A	B	C	D		TOPS INFORMATION				
╞	-+		201			AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
ŀ						CARKND	50 mile/h UP TO 		LENGTH 3		SHEET





TARE -	9 350 Kg
CAPACITY, WEIGHT-	20t
CAPACITY, VOLUME-	20m ³
FLOOR AREA -	
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	C. 7259

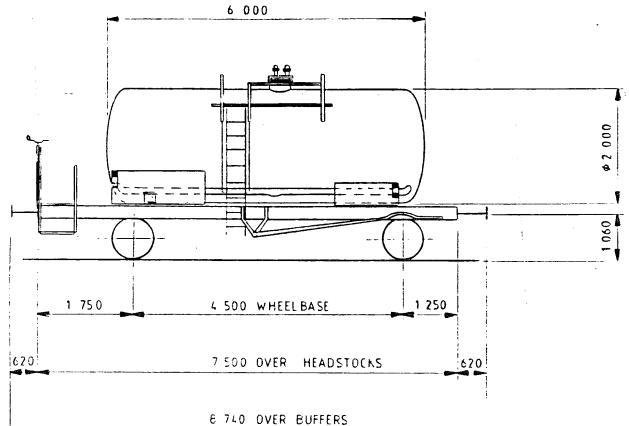
BRAKE -	AIR THROUGH PIPE	
SUSPENSION		
COUPLINGS -	U.I.C.	
BUFFERS -		
WHEELS -	Ø1050	9 - Anno 19
JOURNALS -		

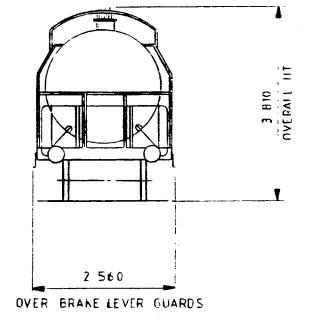
TYPE -	Zfs
WAGON No.	- 23 87 7390 500
BUILDER -	
OWNER -	ERMEWA

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331 GLW 2 AXLE TANK

ABCD		······································	TOPS INFO	RMATION				
21-61 231 231	AARKND	OPERATING	SPEED	BRAKE FOR	CE DATA	EXCESS	RA	DESIGN
	CARKND	50 mile/h UP TO	33 tonne GLW	71 FORCE UP TO	23 + GLW	LENGTH	(GLW)	SHEET
		milc/h ABOVE	33 TOULLE GLAN	17 + FORCE ABOVE	2010EW		4	





TARE -	10 500 Kg
CAPACITY, WEIGHT-	231
CAPACITY, VOLUME-	18m ³
FLOOR AREA -	
MIN. CURVE -	6) п
GEN ARRGT DRG No	- BT 519-2

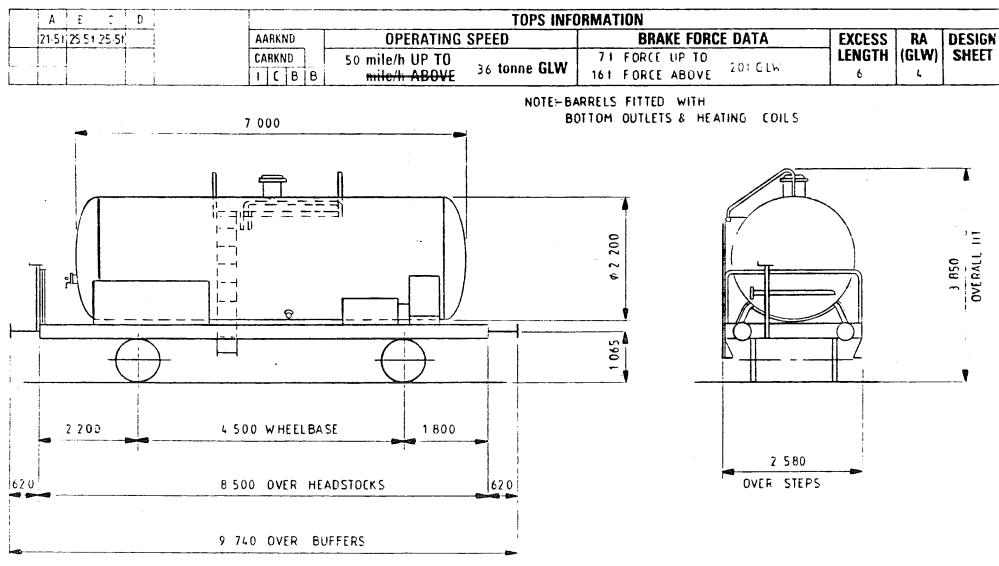
BRAKE -	AIR & VAC THRO' FIPE
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C
BUFFERS -	HYDRAULIC #370 HD
WHEELS -	¢1.000
JOURNALS -	¢130

TYPE -	Zet Zets
WAGON No	23 80 7191 701 8 702
	23 80 7391 718 - 720
BUILDER -	E A.S.F. LUDWIGSHAFEN
OWNER -	C 2

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361 GLW 2 AXLE TANK



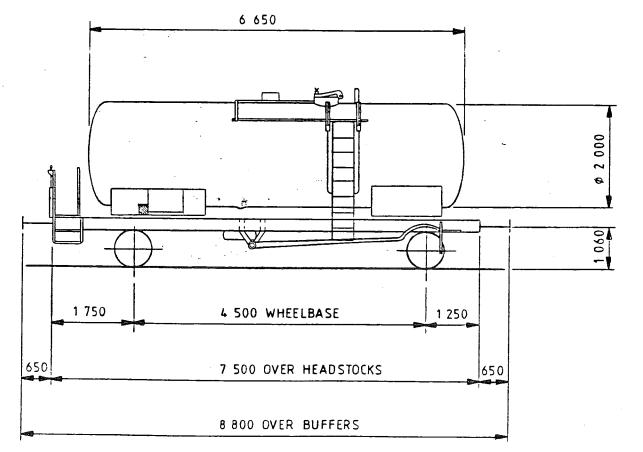
TARE -	10 500Kg
CAPACITY, WEIGHT-	25·5 t
CAPACITY, VOLUME-	25m ³
FLOOR AREA -	
MIN. CURVE -	60m
GEN. AREGT. DRG. No-	6886

BRAKE -	AIR & VAC THRO' PIPE
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC # 370
WHEELS -	¢1.000
JOURNALS -	¥130

TYPE -	Zel	. :
WAGON No	23 83 7197 016.017	:
	$(r,r_{1})_{ij} = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right) \right) \left(\frac{1}{2} \right) \left(\frac{1}$	
BUILDER -	ALF	
OWNER -	MONTEDISON MILAN	
	ISSUE 1	

31 f GLW 2 AXLE TANK

	A B C D		TOPS IN	ORMATION			
	191	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
Ļ		CARKND	50 mile/h UP TO 31 torse CLAR	5 + FORCE UP TO to to the	LENGTH	(GLW)	SHEET
1		ICBB	mile/h ABOVE 31 tonne GLW	12 + FORCE ABOVE 15 + GLW	4	3	1



TARE -	12 500 Kg
CAPACITY, WEIGHT-	19 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	_
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 25.01.253

BRAKE -	AIR & VAC THRO'PIPE	
SUSPENSION	- SINGLE LINK	
COUPLINGS -	U. I. C.	
BUFFERS -	HYDRAULIC Ø 370	
WHEELS -	Ø1 m	
JOURNALS -	Ø 130	

	3 800 OVERALL HT

ICE 154

 Zitkk
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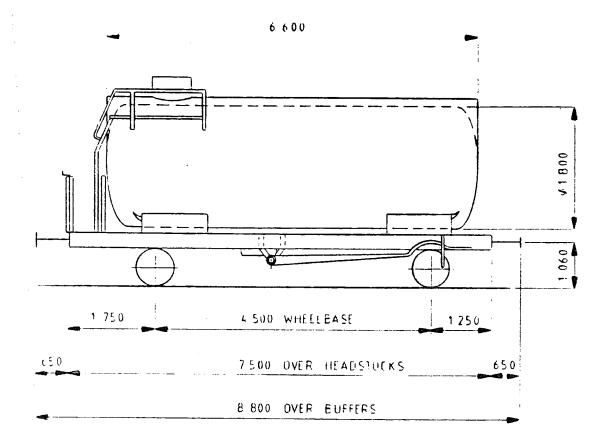
TYPE - WAGON No	> SEE AB	OVE	
BUILDER -	J V. T. G .		
OWNER -	V. T.G.		

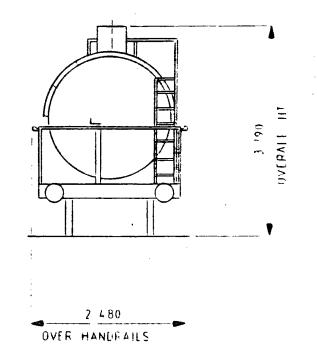
ISSUE 1

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321 GLW 2 AXLE TANK

A E C E			TOPS INFO	DRMATION		<u> </u>		
181 15-51 16-81	AARKND	OPERATING	SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
	CARKND	50 mile/h LIP TO		81 FORCE UP TO		LENGTH	(GLW)	SHEET
		mile/h ABOVE	32 tonne GLW	181 FORCE ABOVE	231 GLW	L 4	3	





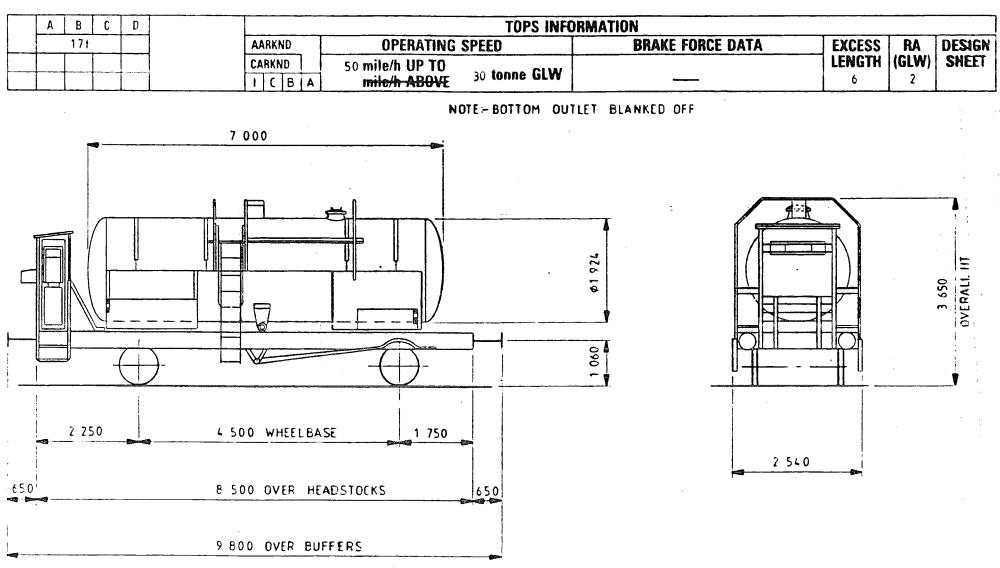
TARE -	14 000 Kg
CAPACITY, WEIGHT-	181
CAPACITY, VOLUME-	15 .ni ³
FLOOR AREA -	······································
MIN. CURVE -	60 m
GEN. AREGT. DRG No	-2603 11.096

BRAKE -	DUAL
SUSPENSION	-SINGLE LINK
COUPLINGS -	U.I.C
BUFFERS -	HYDFAULIE \$ 370
WHEELS -	\$ 1396
JOURNALS -	z 130

Zfgk			
- 23 60 727			
VTG			
· · · · · · · · · · · · · · · · · · ·		·	
-	- 73 60 72 7	- 23 60 7277 015 - 039 (NOT INCL	- 23 60 7277 015 - 039 (NOT INCLU)

ISSUE ·

301 GLW 2 AXLE TANK



TARE -	12 750 Kg
CAPACITY, WEIGHT-	17 1
CAPACITY, VOLUME-	19 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	ET 1053

BRAKE -	AIR & VAC. THROUGH PIPE
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C
BUFFERS -	HYDRAULIC Ø 370 HD
WHEELS -	¢1 000
JOURNALS -	¢130

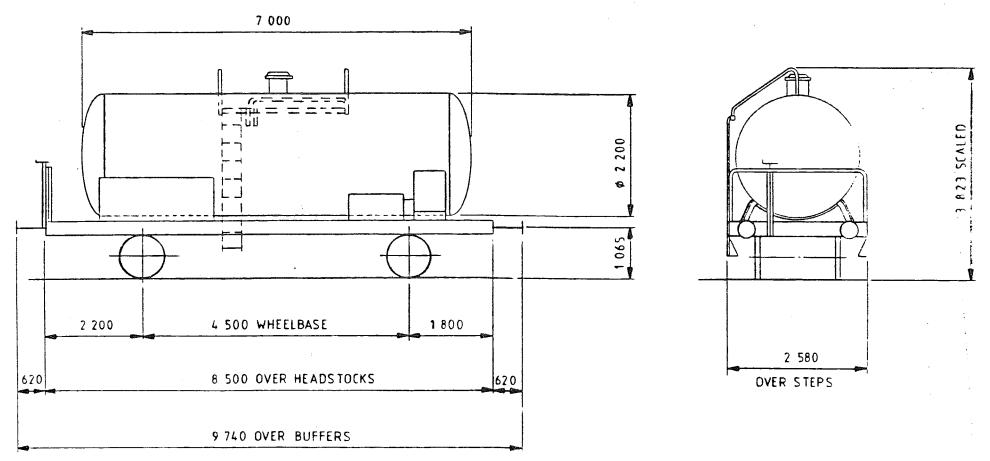
TYPE -	Zet
WAGON No	23 80 7197 400
01111 NEN	I DEDICATE LANDER CODE
BUILDER -	BADISCHE ANILIN & SODA
BUILDER - OWNER -	L BADISCHE ANILIN & SODA

ISSUE 1

ICE 160

35 T GLW 2 AXLE TANK

ΑΕΣΟ	TOPS INFORMATION				Ī,	
20 8t 24 ti 24 ti	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	CARKND	50 mile/h UP TO	7 + FORCE UP TO	LENGTH	(GLW)	SHEET
	ICBB	miles ABOVE 24 tonne GLW	15 + FORCE ABOVE 19 + GLW	6	4	



TARE -	11 200 Kg
CAPACITY, WEIGHT	?L +
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DEG No.	- 56252 233

BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION -	SINGLE LINK
COUPLINGS -	UTC.
BUFFERS -	
WHEELS -	¢îm
JOURNALS -	Ø 130

TYPE -	Zef				
WAGUN No	23 83 7197 008 - 015				
BUILDER -	SIAL - LERICI				
OWNER -	MONTEDISON, MILAN				
	ICCIIE +				

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ISSUE 1

ICE 170

371 GLW 2 AXLE TANK

B С D A **TOPS INFORMATION** 17-01 23-61 25-11 AARKND **OPERATING SPEED BRAKE FORCE DATA** EXCESS DESIGN RA CARKND LENGTH (GLW) SHEET 50 mile/h UP TO mile/h ABOVE 111 FORCE UP TO 37 tonne GLW 211 GLW ICBB 201 FORCE ABOVE 3 5 NOTE: BRAKED WEIGHTS 6 390 T \$ ПΠ 020 3 830 OVERALL HT ~ 0 Ś 1 06 1 500 4 000 WHEELBASE 1 000 2 570 620 OVER FOOTSTEPS 6 500 OVER HEADSTOCKS 620 7 740 OVER BUFFERS

TARE -	12 370 Kg
CAPACITY, WEIGHT-	25.1 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN ARPGT. DRG. No	4420.72

Δ

AIR & VAC THRO' PIPE					
SUSPENSION - SINGLE LINK					
U.I.C.					
HYDRAULIC Ø370 HD					
Ø1 000					
¢130					

TYPE -	Z 1 g
WAGON No	- 23 88 7194 000
BUILDER -	FRERES. COBERT
OWNER -	SOLWAY. BRUSSELS

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ISSUE 1

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ICE 174

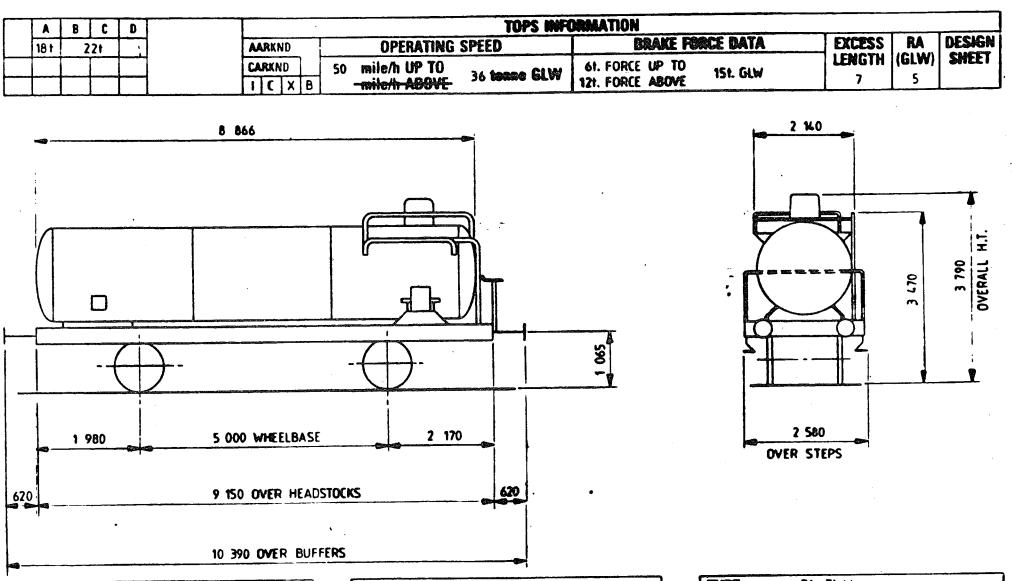
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36t. GLW. 2 AXLE TANK

ICE 177



TARE -	13 950Kg
CAPACITY, WEIGHT-	22 t ,
CAPACITY, VOLUME-	26m ³
FLOOR AREA -	
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	832

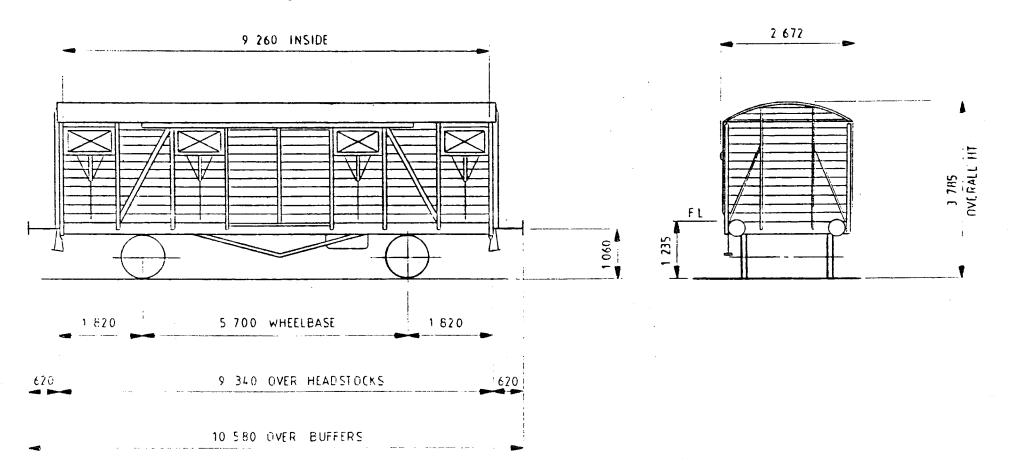
BRAKE -	DUAL
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC #400
WHEELS -	@1m
JOURNALS -	Ø 130mm

TYPE -	Zt; Ztgkk
WASON No.	- 23 83 7190 003-007
	23 83 7288 001
BURLDER -	MARCHETTI MILAN
OWNER -	MONTEDISON
· · · · · · · · · · · · · · · · · · ·	ISSUE 1

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361 GLW 2 AXLE TANK

Σ. Ε. ζ. Γ	····· ··· ··· ····· ··················		TOPS INFO	RMATION		··· ···		
1951 235t	AARKND	OPERATING	SPEED	BRAKE FORC	E DATA	EXCESS	RA	DESIGN
S 1951 23-51	CAPKND	60 mile/h UP TO	36 tonne GLW	SI FORCE UP TO	181 ÚLW	LENGTH	(GLW)	SHEET
	IMXC	Helt ABOVE	36 TUINE GLW	151 FORCE ABOVE		7	5	



TARE -	12 20 0 Kg
CAPACITY, WEIGHT-	23-51
CAPACITY, VOLUME-	42 m ³
FLOOR AREA -	21 m ²
MIN. CURVE -	60 m
GEN AFFOT DRG NE -	01-40-862

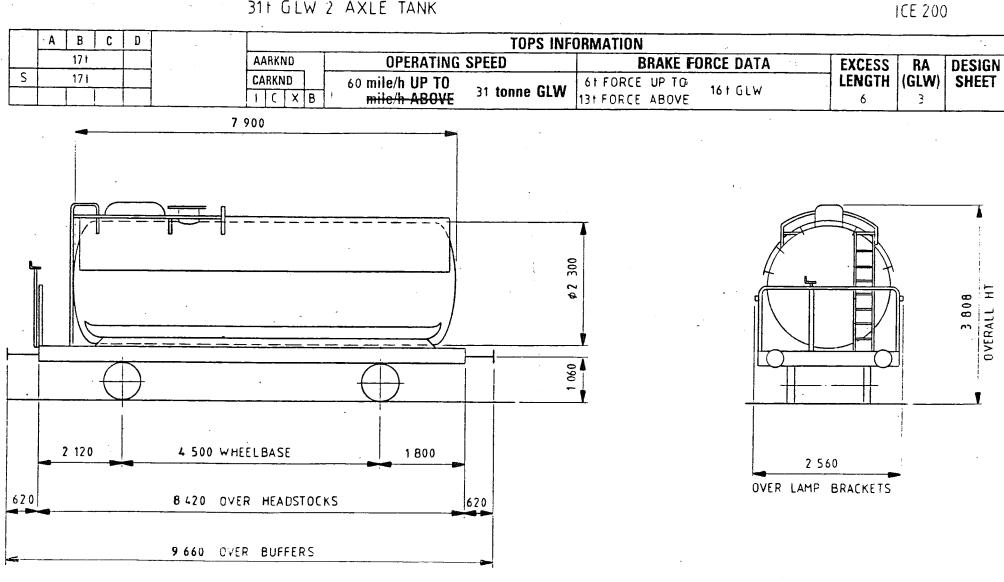
BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC
WHEELS -	31 000
JOURNALS -	¢130

TYPE -	ZTKKS
WAGON No.	- 21 72 2191 000-099
BUILDER -	FAEFIKA VACONA NEALJEN
BUILDER - DWNER -	FAEFIKA VACONA NEALJEN

IME 199

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311 GLW 2 AXLE TANK



TARE -	14 000 Kg
CAPACITY, WEIGHT-	17 :
CAPACITY, VOLUME-	31 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- 83031-01-2

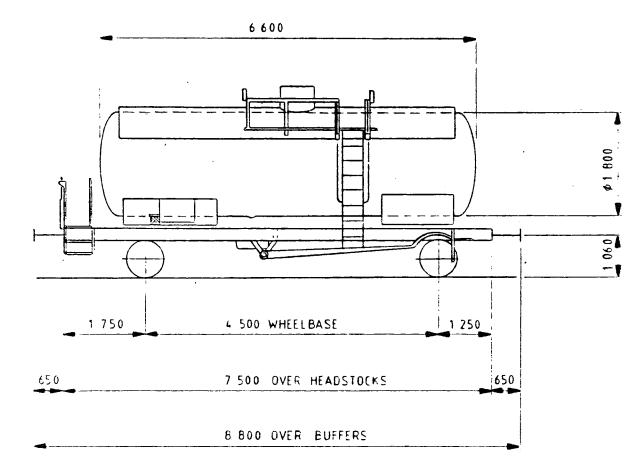
BRAKE -	DUAL
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U. I. C.
BUFFERS -	HYDRAULIC 2 370 HD
WHEELS -	Ølm
JOURNALS -	ø130

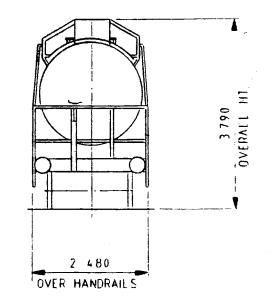
TYPE -	_	Z. f. g.	S .		
WAGON	No	23 8	0 7394	400	
RUILDEE	2 _				
BUILDEF					

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321 GLW 2 AXLE TANK

	A E C D TOPS INFORMATION										
	181 AARKND		AABKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN	
		-	CARKND	50 mile/h UP TO		61 FORCE	UP TO	20+ GLW	LENGTH	(GLW)	SHEET
Ĺ			I C X B	mile/h ABOVE	32 tonne GLW	151 FORCE	ABOVE		4	3	





TARE -	14 000 Kg
CAPACITY, WEIGHT-	181
CAPACITY, VOLUME-	15.5 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN ARRGT. DRG. No	- 2603. 01.296

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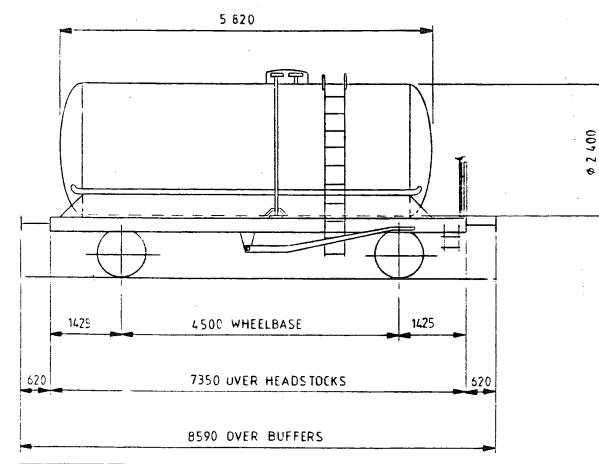
BRAKE -	DUAL
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC #370 HD
WHEELS -	¢1600
JOURNALS -	Ø 130

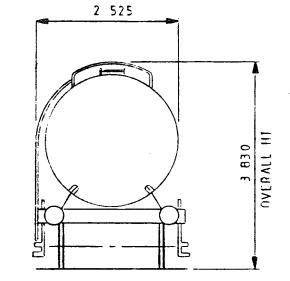
TYPE- Zitgk	
WAGON No 23 80 72	277 001,003,004, 006,007, 009-012
BUILDER - V.T.G	
OWNER - V.T.G	
	100115

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36 t GLW 2 AXLE TANK

A B C D TOPS INFORMATION							
20 Bt 24 Bt 25 6t	AARKND	OPERATING SPEED	EXCESS	RA	DESIGN		
	CARKND	50 mile/h UP TO	5 + FORCE UP TO	LENGTH	(GLW)	SHEET	
	ICBB		11 + FORCE ABOVE 14 ' ULW	4	5		





ICE 207

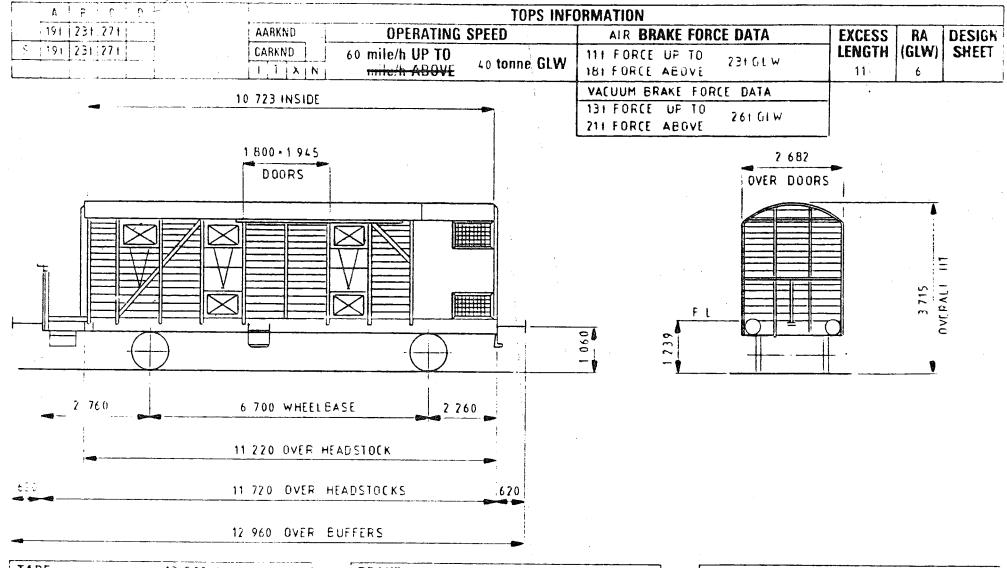
TARE -	11 200 Kg
CAPACITY, WEIGHT-	256 t
CAPACITY, VOLUME-	24 4 m ³
FLOOR AREA -	
MIN. CURVE -	50 ni
GEN. ARRGT. DRG No	. 73717

BRAKE -AIR & VAS	THEOPIPE PLATFORM SCREW & LEVER
SUSPENSION	- SINGLE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC
WHEELS -	¢ 1 050
JOURNALS -	e 130

TYPE -	Zct	
WAGON No	23 87 7191 500	
BUILDER -	FAUVET - GIREL	<u></u>

ISSUE 1

401 GLW 2 AXLE VAN



TARE -	13 000 Kg
CAPACITY, WEIGHT-	26.51
CAPACITY, VOLUME-	51.5 m ³
FLOOR AREA -	25 m ²
MIN. CURVE -	60m
GEN AHRGT DRG No	- 15043 01 01

BRAKE -	DUAL		_	٦
SUSPENSION	-DOUBLE LINK			1
COUPLINGS -	U.I.C			7
BUFFERS -	HYDRAULIC ¢460 HD		· · ·	1
WHEELS -	Ø1000	•		1
JOURNALS -	Ø130			1

TYPE -	Hths	
WAGON N	10 2471 2148 397-485	
		·
BUILDER -		· · · ·
BUILDER - OWNER -	IRANSFESA	

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ITE 215

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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

261 GLW 2 AXLE TANK

	A B C D			TOPS INFO	DRMATION				
	101	AARKND	OPERATING		BRAKE FOR	CE DATA	EXCESS	RA	DESIGN
S	101	CARKND 60	mile/h UP TO mile/h ABOVE	26 tonne GLW	71 FORCE UP TO 151 FORCE ABOVE	19 t G L W	EXCESS LENGTH	(GLW) 1	DESIGN Sheet
620		WHEELBASE OVER HEADSTOC	1 250 KS	000 Z Ø 090 -		1 832 2 460 OVER FOOTST	EPS	. 3 820	OVERALL HT
	8 74 0	OVER BUFFERS							

TARE -	15 500Kg
CAPACITY, WEIGHT-	10 t
CAPACITY, VOLUME-	18.5 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	B 3006.01.1

BRAKE -AIR & V	AC THRO PIPE PLATFORM SCREW& SIDE LEVER
	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC #370HD
WHEELS -	Ø1 000
JOURNALS -	¢130

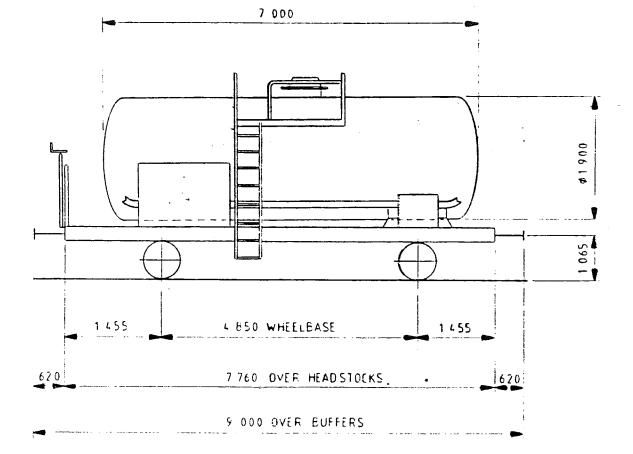
TYPE -	Zfgks
WAGON No	- 23 80 7395 002 - 005
BUILDER -	UERDINGEN AG KREFELD

ISSUE 1

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361 GLW 2 AXLE TANK

	A E C D	TOPS INFORMATION]					
	21-41 25-41 25-41	AARKND	OPERATING	SPEED	BRAKE FOR	CE DATA	EXCESS	RA	DESIGN
		CARKND	50 mile/h UP TO	24 toppo CINI	ST FORCE UF TO	141 GLW	LENGTH	(GLW)	SHEET
L		I C X B	mile/h ABOVE	36 tonne GLW	111 FORCE ABOVE		5	5	



3 620 3 610 1)VF RALL HI	
2 580	

NOTE	23 83	7197	016.	019. 020	8 021
	ARE FI	TTED	WITH	HEATING	DEVICES

TYPE -	Zt&Zet		
WAGON No.	- 23 83 7190	000.001.002	
		018,019,020	021
BUILDER -	GALLINAFI		
OWNER -	SICEDISON		
	5 IV E DI 5 DIN		

TARE -	10 600 Kg
CAPACITY, WEIGHT-	25.61
CAPACITY, VOLUME-	19 r. ³
FLOOR AREA -	
MIN. CURVE -	60 F
GEN. ARRGT. DRG. No	i/S

DUAL
- SINGLE
U.I.C
HYDRAULIC #370 HD
Ø1030
z 130

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

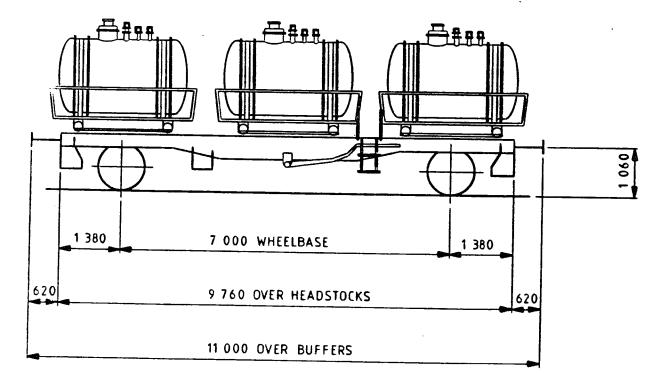
30 + GLW 2 AXLE CONTAINER FLAT

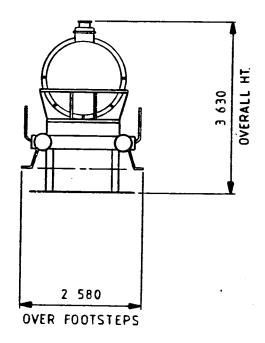
	A	В	C	D		TOPS INFORMATION	<u> </u>		
+		20 t			AARKND	OPERATING SPEED BRAKE FORCE DATA	EXCESS	RA	DESIGN
		20 †			CARKND	60 mile/h UP TO 30 tonne GLW 6 + FORCE UP TO 17 + GLW	LENGTH		SHEET
L	I					mile/h ABOVE 30 tonne GLW 13 t FORCE ABOVE 17 t GLW	8	2	

NOTE: VARIOUS SIZES OF CONTAINER MAY BE CARRIED

MAXIMUM OVERALL HEIGHT = 3 630

MAXIMUM OVERALL WIDTH = 2 032





TARE -	9 950 Kg
CAPACITY, WEIGHT-	20 t
CAPACITY, VOLUME-	5 m ³ / CONTAINER
FLOOR AREA -	•
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	2801.01.01

BRAKE -	AIR & VAC. THRO'PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø 370 HD.
WHEELS -	Ø1m
JOURNALS -	Ø 130

TYPE -	Lbfms
WAGON No.	- 23 80 4141 000 - 002
BUILDER -	SIEGENER
OWNER -	DEGUSSA

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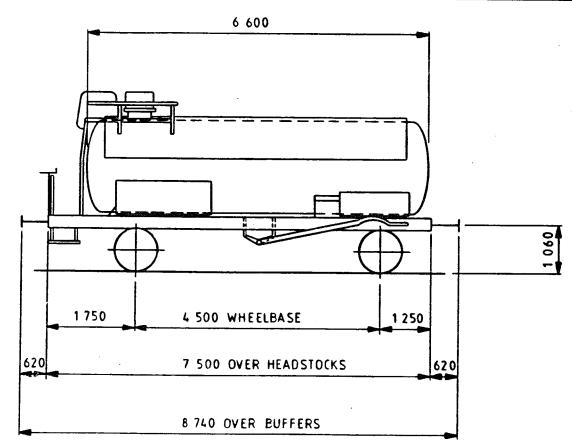
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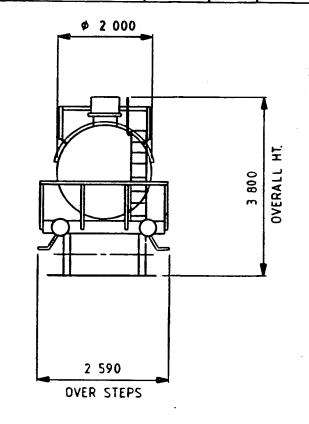
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

IPE 222

37 f GLW 2 AXLE TANK

A B C D	TOPS INFORMATION			
17·8t 21·8t 23·1t	AARKND OPERATING SPEED	BRAKE FORCE DATA	EXCESS RA DESIGN	
	CARKND 50 mile/h UP TO 1 C B B mile/h ABOVE 37 tonne GLW	9 t FORCE UP TO 17 t FORCE ABOVE 22 t GLW	LENGTH (GLW) SHEET	





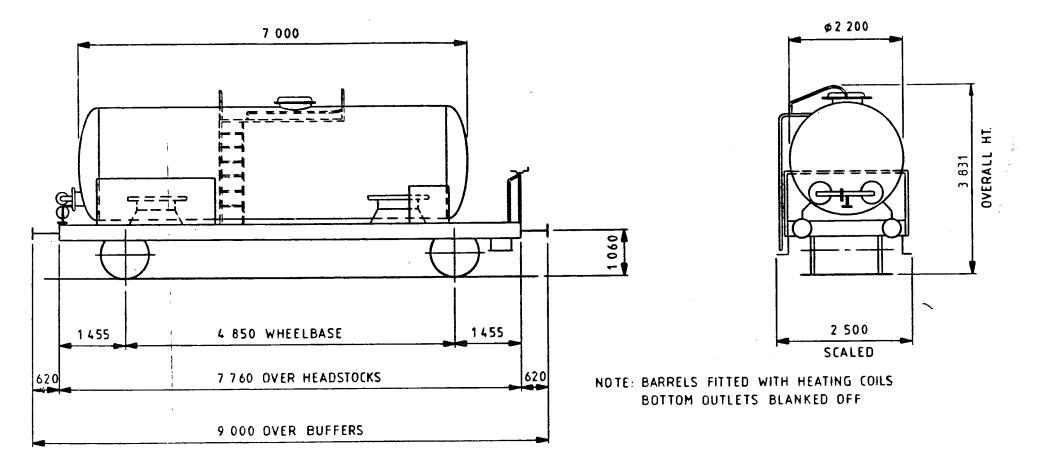
TARE -	14 000 Kg
CAPACITY, WEIGHT-	23-11
CAPACITY, VOLUME-	18·5 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	H8886-2

BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION	DOUBLE LINK
COUPLINGS -	U.LC.
BUFFERS -	HYDRAULIC Ø 370 HD.
WHEELS -	ø1m
JOURNALS -	¢ 130

TYPE -	Zfgks
WAGON No.	- 23 80 7395 000, 001
BUILDER -	HÖLS CHEMICAL WORKS
OWNER -	DB
	ISSUE 1

40 t GLW 2 AXLE TANK

A	A	B	C	D	[TOPS INFORMATION						
20	21	24.21	28.2	1	1	AARKND	Τ	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
			1	1		CARKND		50 mile/h UP TO	5 + FORCE UP TO 21 + GLW	LENGTH	(GLW)	SHEET
			1	1		ICB	B	mile/h ABOVE 40 tonne GLW	13 + FORCE ABOVE 21 + ULW	5	6	



TARE -	11 800 Kg
CAPACITY, WEIGHT-	28·2 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 233-60.0150

BRAKE -	AIR & VAC THRO' PIPE
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø 370 HD.
WHEELS -	Ø 1m
JOURNALS -	ø 130

TYPE -	Zef
WAGON No.	- 21 83 7197 022, 023
BUILDER -	SIAI - LERICI
BUILDER - OWNER -	SIAT - LERICI SICEDISON

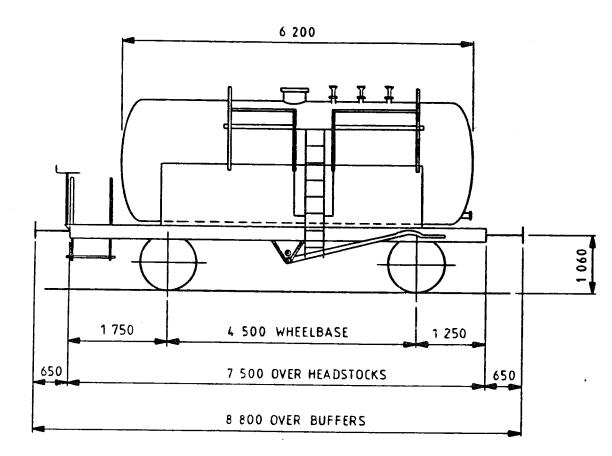
ISSUE 1

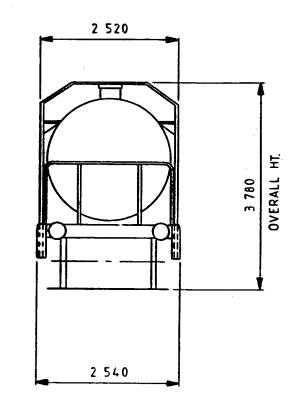
ICE 225

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40 t GLW 2 AXLE TANK

	A	В	C	D		TOPS INFORMATION				
		123·51	ł		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	19.5	23.51	23.5	1	CARKND	60 mile/h UP TO	6 T FORCE UP TO 23 A CIN	LENGTH		
		1	İ		C B C	50 mile/h ABOVE ³⁶ tonne GLW	18 + FORCE ABOVE 23 + GLW	4	6	





ICE 227

TARE -	12 300 Kg
CAPACITY, WEIGHT-	27·5 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	•
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	BT 1235 - 2

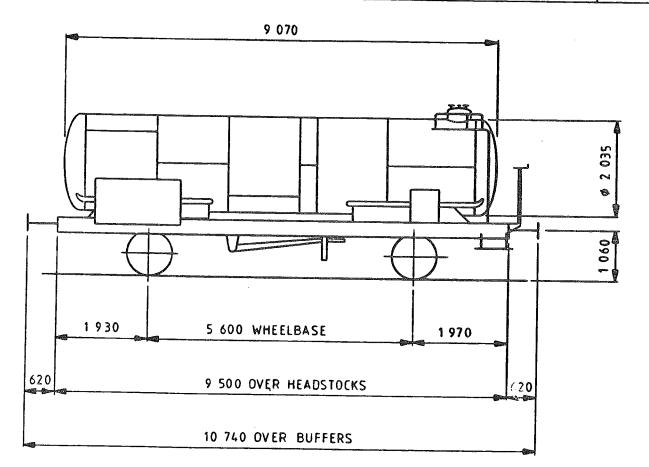
BRAKE -	AIR & VAC THRO'PIPE
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370 HD.
WHEELS -	Ø 1m
JOURNALS -	Ø 130

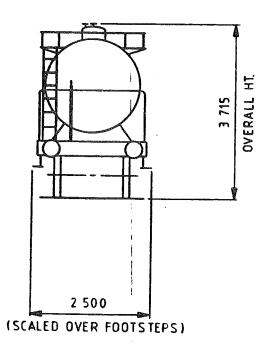
TYPE -	Zcefs
WAGON No.	- 23 80 7398 602
BUILDER - 1	BADISCHE ANILIN &
OWNER - J	SODA-FABRIK, LUDWIGSHAVEN

ISSUE 1

40 + GLW 2 AXLE TANK

		A	B	C	D			TOPS INFO	DRMATION			
-	-	9.81	23.81	27.8	₩ ╋━━━		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
E]	CARKND	50 mile/h UP TO 	5 † FORCE UP TO 13 † FORCE ABOVE 17 † GLW	LENGTH 7		SHEET





ICE 230

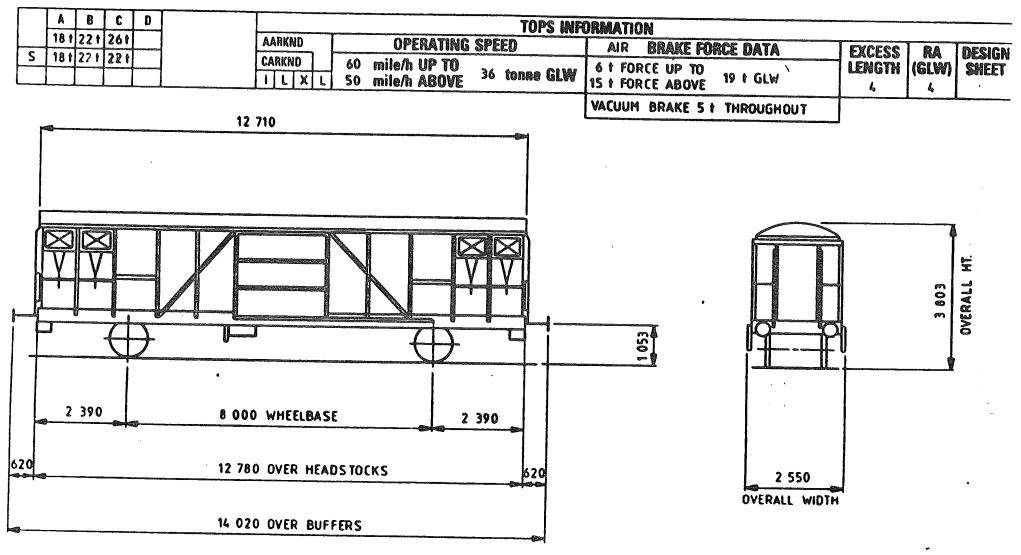
TARE -	12 200 Kg
CAPACITY, WEIGHT-	27.8
CAPACITY, VOLUME-	29 m ³
FLOOR AREA -	anno
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	1132 • T

AIR, VAC. THRO' PIPE
- DOUBLE LINK
U.I.C.
HYDRAULIC
Ø 960
Ø 130

- 23 83 7197 037 & 038
- 23 03 1131 031 & 038
MONTECATINI, MILAN

(

36 t GLW 2 AXLE VAN



TARE -	14 000 Kg
CAPACITY, WEIGHT-	26 t ·
CAPACITY, VOLUME-	65·5 m ³
FLOOR AREA -	28.5 m ²
MIN. CURVE -	6 J m
GEN. ARRGT. DRG. No.	-1-V-3201

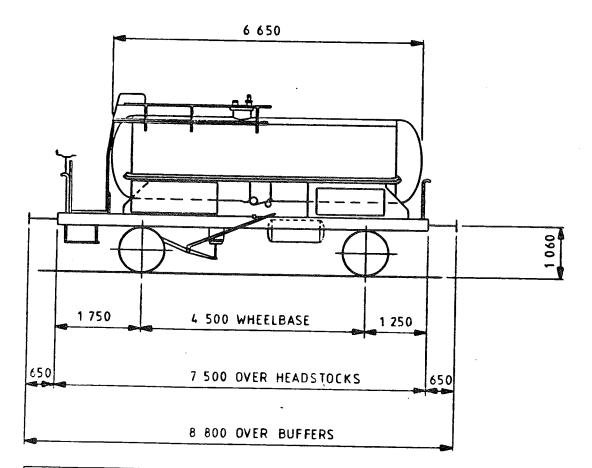
BRAKE -	DUAL
SUSPENSION	- DOUBLE LINK
COUPLINGS -	ULC.
BUFFERS -	RINGFEDER Ø 370 HD.
WHEELS -	ø 960
JOURNALS -	Ø 130

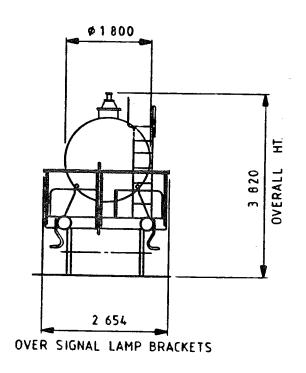
TYPE -	Hfs		
WAGON No.	- 21 74	2140 000 - 099	
	`		
		مىرىنى تەرىپى بىرىمىنىيە بىرىمىيەت مەرىپىيە تەرىپىيە بىرىمىيەت بىرىمىيەت بىرىمىيەت بىرىمىيەت بىرىمىيەت بىرىمىي	
经间期 的复数	A C 1	FALUN	
DAILNEN -	M. J.J.	FALUR	
OWNER -	<u>A. 3.J.</u> S.J.	FALOR	
OWNER -	A. 3.J. S.J.	ISSUE 1	

-i

33 + GLW 2 AXLE TANK

		A	B	C	D		TOPS INFO	DRMATION			
-	<u> </u>	_		22·21	L	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
		- 21	26.2	22.21		CARKND	60 mile/h UP TO	7 + FORCE UP TO 22 + ELW	LENGTH		
L				I	L	ICBB		17 + FORCE ABOVE 22 + GLW	4	4	





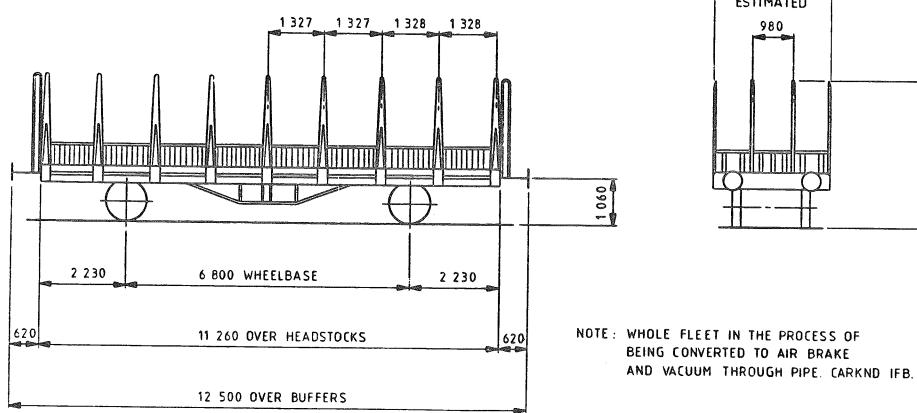
TARE -	10.8 t
CAPACITY, WEIGHT-	22.2 +
CAPACITY, VOLUME-	15 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 13931 - 2

AIR & VAC. THRO'PIPE	
- SINGLE LINK	
U.I.C.	
HYDRAULIC Ø 370 HD.	
Ø 930	
¢ 130	
	- SINGLE LINK U.I.C. HYDRAULIC Ø 370 HD. Ø 930

TYPE -	Zcfkks
WAGON No.	- 23 80 7491 400, 401
BUILDER -	CHEMISCHE WERKE HÜLS
BUILDER -) DWNER -)	CHEMISCHE WERKE HÜLS RECKLINGHAUSEN

40 t GLW 2 AXLE OPEN

	Ļ	A	B	C	D			TOPS INFO	DRMATION			This
				27.51	ļ	AA	ARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	<u>s n</u>	9.51	23 5t	27.51		CA	ARKND	60 mile/h UP TO 40 tonne GIW	5 + FORCE UP TO	LENGTH		
L					L		FXA	mile/k ABOVE 40 tonne GLW	18 + FORCE ABOVE 22 + GLW	10	6	



The same	
TARE -	12 300 Kg
CAPACITY, WEIGHT-	27.5 1
CAPACITY, VOLUME-	
FLOOR AREA -	234 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 13 133

BRAKE -	DUAL	
SUSPENSION -	DOUBLE LINK	
COUPLINGS -	U.I.C.	
BUFFERS -	RINGFEDER Ø 370	
WHEELS -	Ø 1 m	•
JOURNALS -	ø 130	.

TYPE -	Lfms
WAGON No.	- 21 80 4142 025 - 154
BUILDER -	LINKE · HOFMANN · BUSCH

ISSUE 1

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OVERALL I 3 360

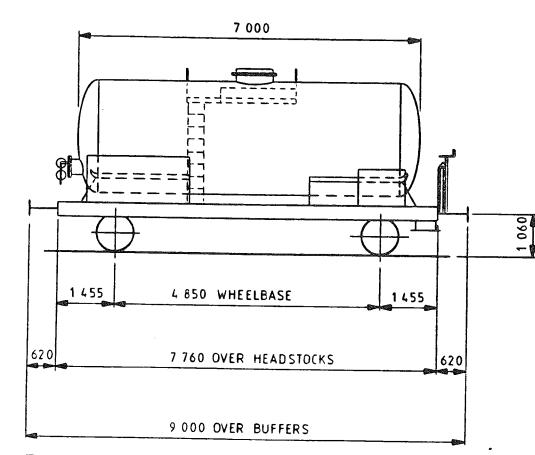
2 31 2 ESTIMATED

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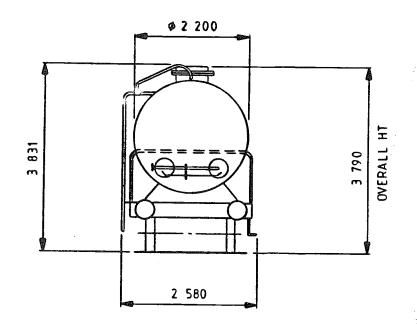
1

36 t GLW 2 AXLE TANK

	A	B	C	D		TOPS INFO	DRMATION			
	2021	242	24-21		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	<u> </u>		 	ļ	CARKND	50 mile/h UP TO 36 tonne GLW	5 + FORCE UP TO 20 + GLW	LENGTH	(GLW)	
L	L		<u> </u>			- WHOW ABOVE 20 LOUNG PLAN	11 + FORCE ABOVE 20 + GLW	5	5	



~



NOTE: FITTED WITH HEATING DEVICES

TARE -	11 740 Kg
CAPACITY, WEIGHT-	24.2 1
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 305/61

AIR & VAC. THRO' PIPE
SINGLE LINK
U.I.C.
HYDRAULIC Ø 370 HD
Ølm
Ø 130

23 83 7197 030 - 036
SIAI - LERICI
EDISON, MILAN
-

ISSUE 1

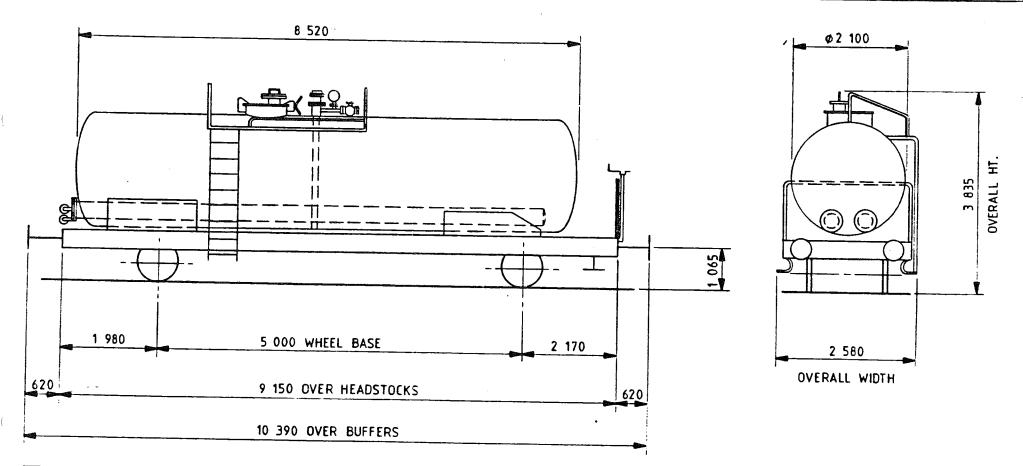
ICE 261

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401. GLW. 2 AXLE TANK

	A	B	C	D		TOPS INFO	RMATION			·····
	201	24+	281		 AARKND	OPERATING SPEED	BRAKE FORCE DATA	Trvoree	DA	DEGION
F					CARKND	50 mile/h IIP TO	6† FORCE UP TO CONTRACT	LENGTH		DESIGN Sheet
L					ICBB	-mile/h ABOVE 40 tonne GLW	14t FORCE ABOVE 20t. GLW	7	6	OHELI



TARE -	11 900kg
CAPACITY, WEIGHT-	28†
CAPACITY, VOLUME-	28 m ³
FLOOR AREA -	•
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	4095

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BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø400 HD
WHEELS -	øîm
JOURNALS -	ø130

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

TYPE -	Zef
WAGON No.	23 83 7197 000-007
BUILDER -	EDISON, MILAN
OWNER -	F.S.

Δ

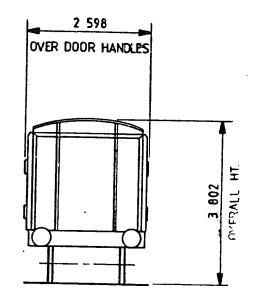
ISSUE 1

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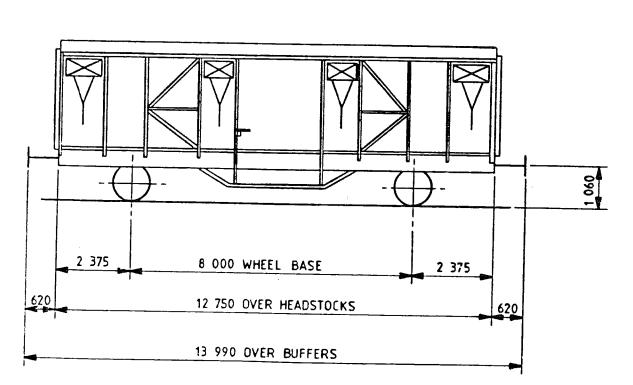
40t. GLW. 2 AXLE AN

ILE 266

	-	A	B	C	D			FORMATION		<u> </u>
-	-+		†	2451	+	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS R	DESIGN
Ľ			20.2	2051		CARKND	60 mile/h UP TO 50 mile/h ABOVE 36 tonne GLW	6t. FORCE UP TO 15t. FORCE ABOVE 19t. GLW	LENGTH (GL	



e.-



TARE -	15 500kg
CAPACITY, WEIGHT-	24·5t
CAPACITY, VOLUME-	66 m ³
FLOOR AREA -	28 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 830,0002M

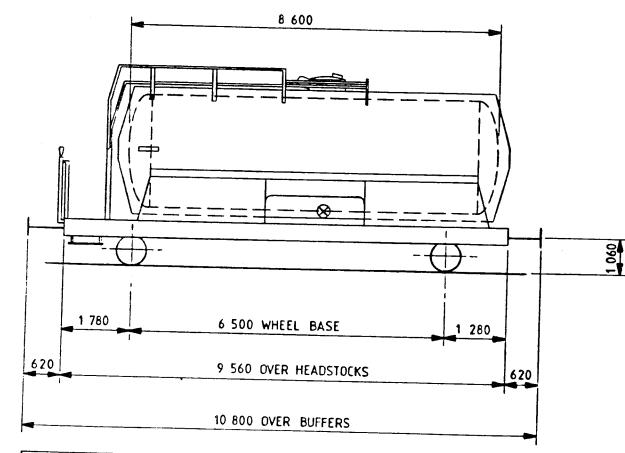
BRAKE -	DUAL	
SUSFENSION -	DOUBLE LINK	
COUPLINGS -	U.I.C.	
BUFFERS -	HYDRAULIC	
WHEELS -	øim	
JOURNALS -	¢130	

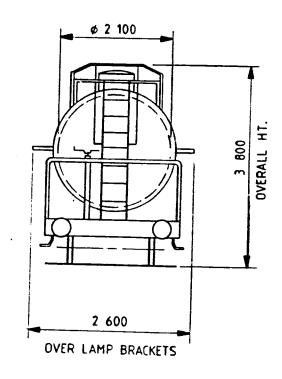
TYPE -	Hbfkks
WAGON No.	- 21 88 2390 034, 036 - 097
BUILDER -	S.N.C.B.

ISSUE 1

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A B C D 18 6t 22 6t 26 6t	TOPS INFO	RMATION			
18·61 22·61 26·61	AARKND OPERATING SPEED	BRAKE FORCE DATA	EXCESS		DESIGN
	LICING THE ADOUT 40 tonne GIW	61 FORCE UP TO 151 FORCE ABOVE 191. GLW	LENGTH 7	(GLW) 6	SHEET





TARE -	13:41
CAPACITY, WEIGHT-	26·6†
CAPACITY, VOLUME-	28m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 2351.01.387

Δ

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DUAL
DOUBLE LINK
U.I.C.
RINGFEDER Ø370 HD
ø1m
¢130

TYPE -	Zcefs
WAGON No.	- 23 80 7398 017
BUILDER -	V.T.G.

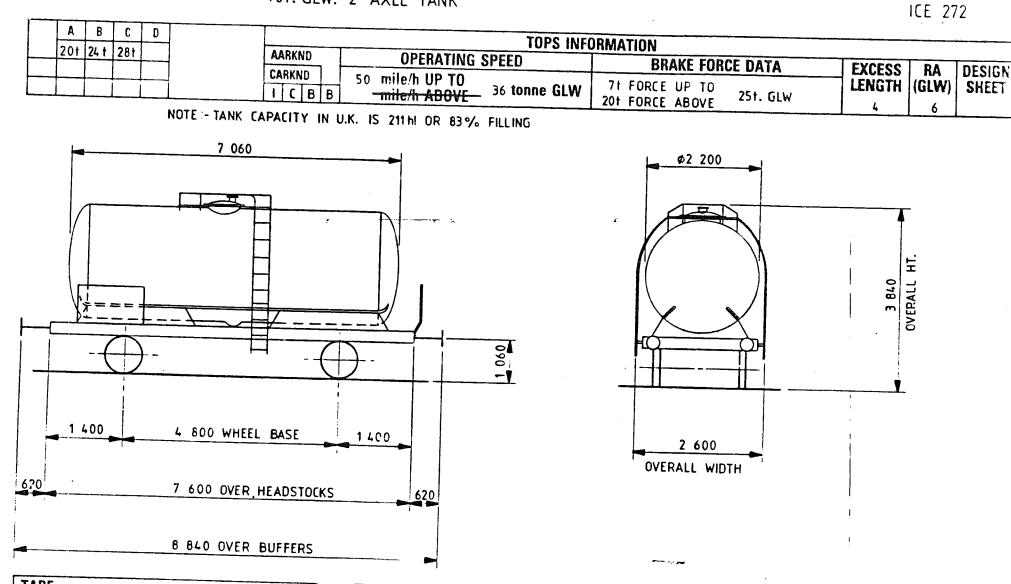
ISSUE 1

40t. GLW. 2 AXLE TANK

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401. GLW. 2 AXLE TANK



10 680kg
281
25m ³
60m
- 89005

BRAKE -	AIR & VAC THRO' PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	ø1m
JOURNALS -	¢130

TYPE -	Zcf	
WAGON No.	- 23 87 7191 020	
BUILDER -	FAUVET - GIREL	
OWNER -	SOLVAY & CO	

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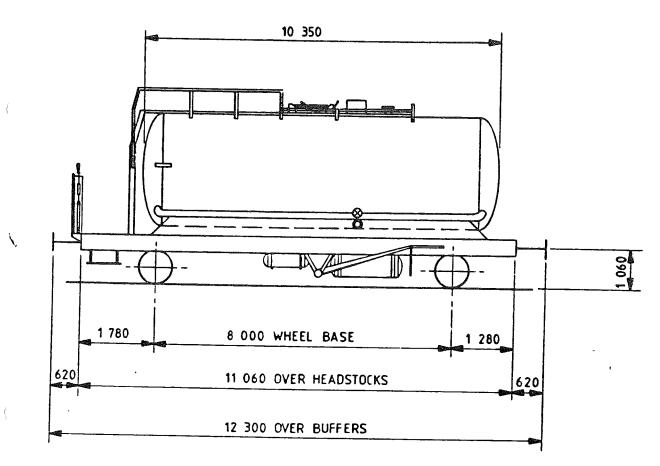
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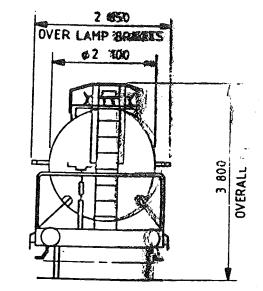
(

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

401. GLW. 2 AXLE TANK

	Ļ	A	B	C	D		TOPS INF	DRMATION	an a	1
┢		- Charles and		25:21 21:21		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXESS DA DESIGN	
┢		/ 21	2121	21.51			60 mile/h UP TO 40 tonne GLW	61 FORCE UP TO 151 FORCE AROVE 191. GLW	LEBRE SELW) SHEET	
L ar	and the second secon						IIIIICAL MEDORE	15t FORCE ABOVE TYP. ULW	113D) 6	





¥E 273

TARE -	14 800kg
CAPACITY, WEIGHT-	25 21
CAPACITY, VOLUME-	34 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 01.412

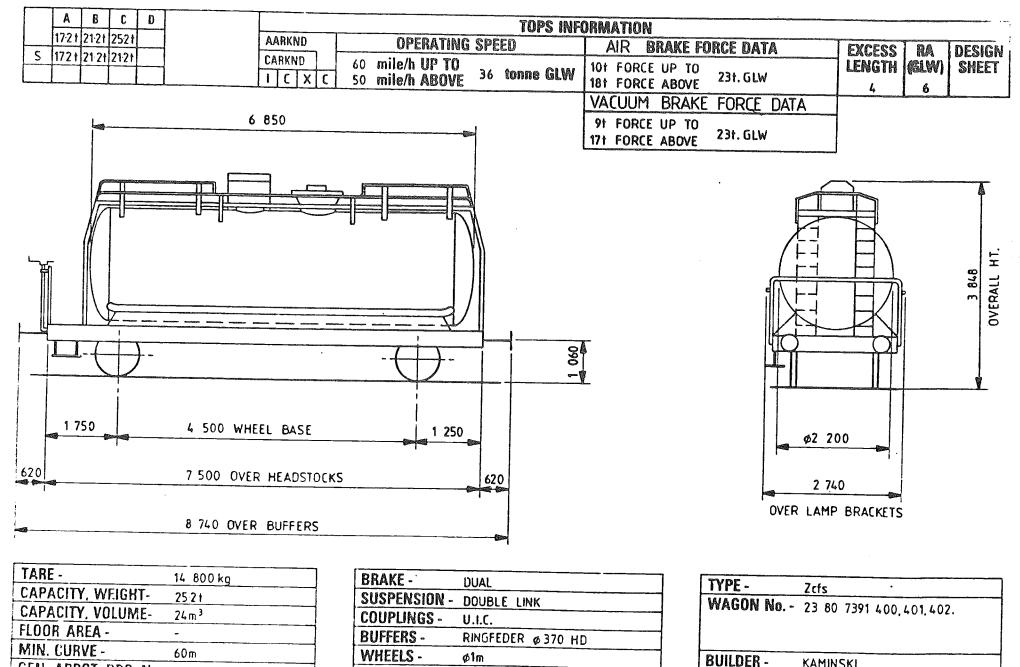
BRAKE -	AIR & VAC. THRO' PIPE				
SUSPENSION					
COUPLINGS - U.I.C.					
BUFFERS -	RINGFEDER Ø 370 HD				
WHEELS -	¢1m				
JOURNALS -	ø130				

TYPE -				Zcef	
WAGON	No	23	80	7391	004.001.002-004
					004-005
BUILDER		V.T	<u>G</u> .		₩\$
OWNER -		V.T.	G.		

▲ ^ Original © BRB Residuary Ltd

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

401.GLW. 2 AXLE TANK



BUILDER - KAMINSKI OWNER - EVA

ISSUE 1

GEN. ARRGT. DRG. No.- W1450

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

ø130

JOURNALS -

401. GLW 2 AXLE FLAT

									v
ABCD		a - ang pangangan ang kanang kanan	NA MINA MARKATING AN ALA ANA ANA ANA ANA ANA ANA ANA ANA	TOPS INFO	RMATION	an a		- John and a standard -	
1951 2351 2751	AARKND	OPE	ERATING SP	PEED	BRAKE FORCE I	DATA	EXOSS	T PA I	DESTIN
S 1951 2351 2351	CARKND	60 mile/h	UP TO	6 tonne GLW	St FORCE UP TO	. GLW	LENETU	RA (GLW)	SVEET
have a second	IFXB		WONAE		191 FORCE ABOVE 191	, ULW	12	6	
		A DESCRIPTION OF THE OWNER	POINT LOAD	5	•				
	METRES	2	5	0			r		
	TONNES	161	191	231			•		
2 310 8 000 WHE	EL BASE HEADSTOCKS		2 310	20	585	737 64		3 245	THI TYLE

TARE -	12 400kg
CAPACITY, WEIGHT-	27 51
CAPACITY, VOLUME-	66m ³
FLOOR AREA -	28m²
MIN. CURVE -	60m
GEN. ARRGT. DRG. No.	- 633.0.004

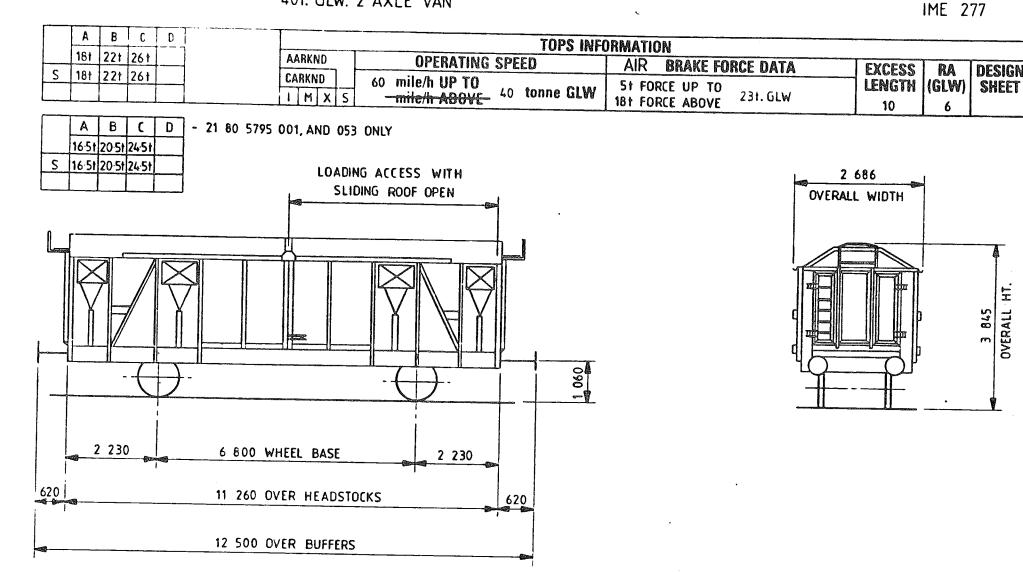
BRAKE -	DUAL, SIDE LEVER
SUSFENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	ølm
JOURNALS -	¢130

TYPE -	Lfs
WAGON No	21 88 4140 100 - 199
RIIIIACO	SNC D
BUILDER -	SNCB
BUILDER -	SNC B

1

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40t. GLW. 2 AXLE VAN



TARE -	13 500kg
CAPACITY, WEIGHT-	26†
CAPACITY, VOLUME-	58m ³
FLOOR AREA -	25m²
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	-12.117.01.01

BRAKE -	DUAL & SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER
WHEELS -	¢1m
JOURNALS -	¢130

TYPE -	Tcefs	
WAGON No	- 21 60 5795 000-098	
	(NOT INCLUSIVE)	
BUILDER -	C.E.	
BUILDER -	С.В. С.Е	

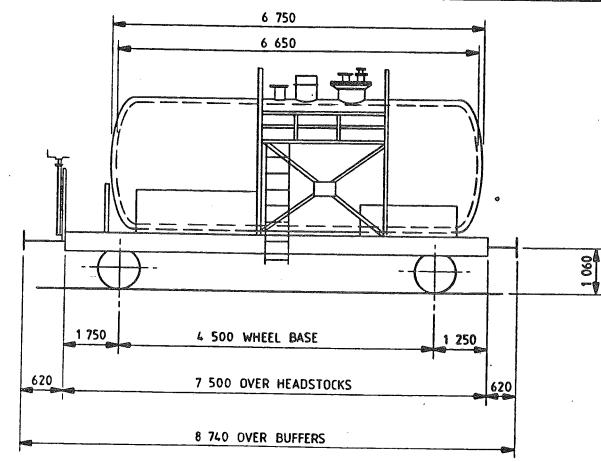
DESIGN

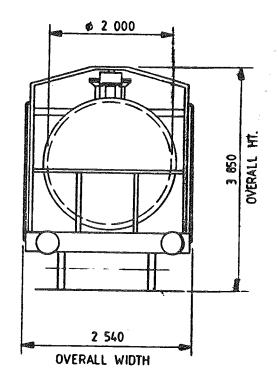
OVERALL HT. 3 845

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40t. GLW. 2 AXLE TANK

	A	B	C	D		TOPS INFO	DRMATION	
and the second second	181	221	261		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS A DESIGN
					CARKND	50 mile/h UP TO 40 tonne GLW	8t. FORCE UP TO 16t. FORCE ABOVE 20t. GLW	LENGTH KGLW) SHEET





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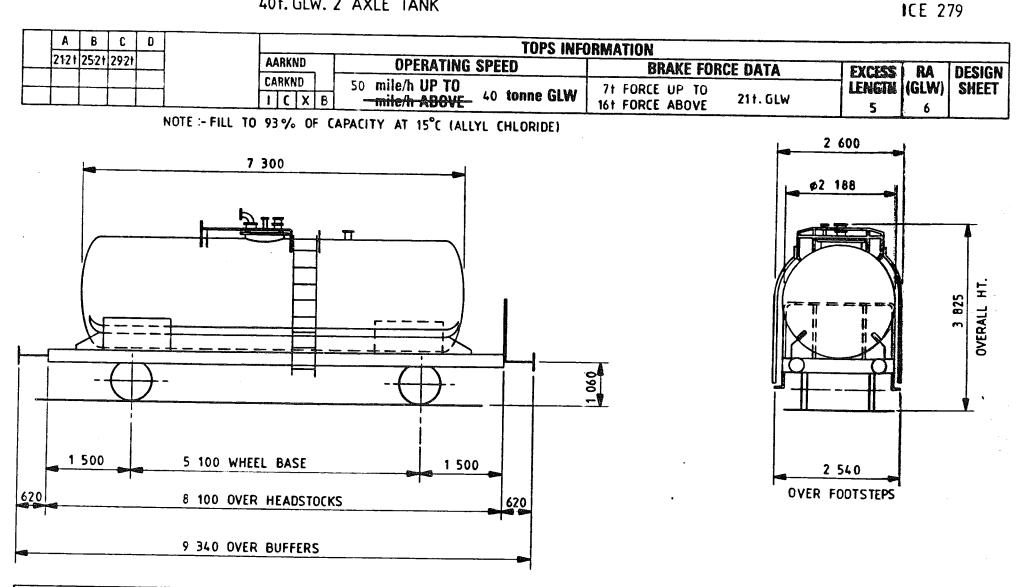
TARE -	141
CAPACITY, WEIGHT-	26†
CAPACITY, VOLUME-	19m ³
FLOOR AREA -	annen angegen Laurez-Mittan giner ng pananinggen ingan kabuma angam giner ng manin
MIN. CURVE -	60m
GEN. ARRGT. DRG. No.	- B.T. 1531-2

BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø370
WHEELS -	ø1m
JOURNALS -	¢130

TYPE -	Zcf
WAGON No.	- 23 80 7191 703,704
DIIIDPD	n a gu an a bha a gus ann a fha an sin an ann an an an gu dha a bhanna Chain ann ann ann a bha a sao ann an a
BUILDER -	BADISCHE ANILIN & SODA FABRIK
BUILDER - OWNER -	BADISCHE ANILIN & SODA FABRIK BADISCHE ANILIN & SODA FABRIK

1

40t. GLW. 2 AXLE TANK



TARE -	10 79†	
CAPACITY, WEIGHT-	29.21	_
CAPACITY, VOLUME-	26 m ³	_
FLOOR AREA -	••••••••••••••••••••••••••••••••••••••	
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	- 91022	\neg

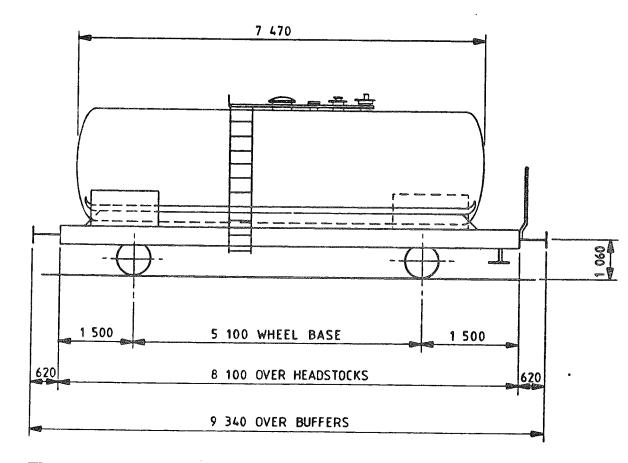
BRAKE -	DUAL
SUSPENSION	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	
WHEELS -	ø1m
JOURNALS -	ø130

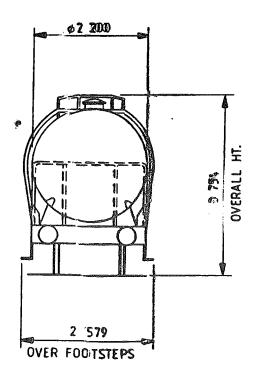
TYPE -	Zf
WAGON No	23 87 7191 022
BUILDER -	FAUVET - GIREL
	SOLVAY & CO
OWNER -	JULVAI & LU

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

401. GLW. 2 AXLE TANK

		A	B	C	D		TOPS INFO	DRMATION]
-	17	7.4 †	25·4†	29:41		AARKND	OPERATING SPEED	AIR BRAKE FORCE DATA	EXCESS	RA	DESIGN
┝						CARKND	50 mile/h UP TO 40 tonne GLW	61 FORCE UP TO 244 CIVI	LENGT		
L				l			B	16t FORCE ABOVE 21t. GLW	5	6	





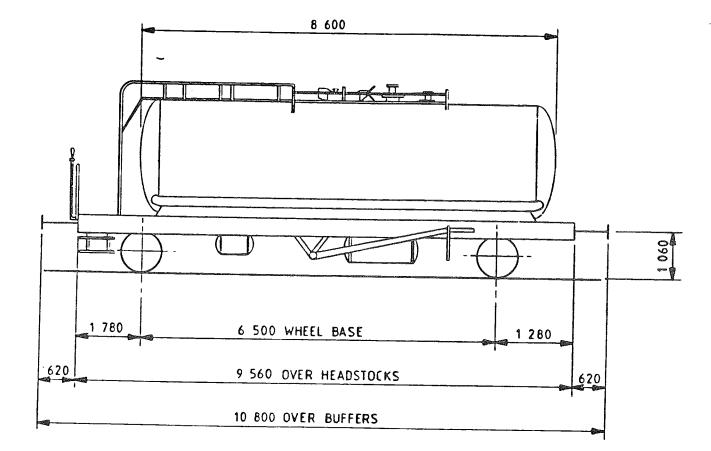
TARE -	10.51 t	·
CAPACITY, WEIGHT-	29.41	
CAPACITY, VOLUME-	26 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	- 91397	

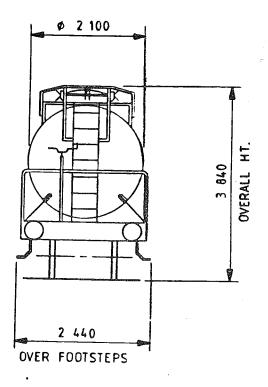
BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	
WHEELS -	¢1m
JOURNALS -	ø130

TYPE -	Zf
WAGON No.	- 23 87 7191 023
DUUDED	
BUILDER -	FAUVET GIREL
BUILDER - OWNER -	FAUVET GIREL INTEROX CHIMIE

401. GLW. 2 AXLE TANK

	-	A	B	C	D		TOPS INF	DRMATION		·	1
┢				275t 275t		CARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS		DESIGN
Ľ							B mile/h UP TO 40 tonne GLW	51 FORCE UP TO 151 FORCE ABOVE 191.GLW	LENGTE	(GLW)	SHEET





TARE -	12 500kg
CAPACITY, WEIGHT-	27·5t
CAPACITY, VOLUME-	28 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	2233.01.434

[△]Original © BRB Residuary Ltd

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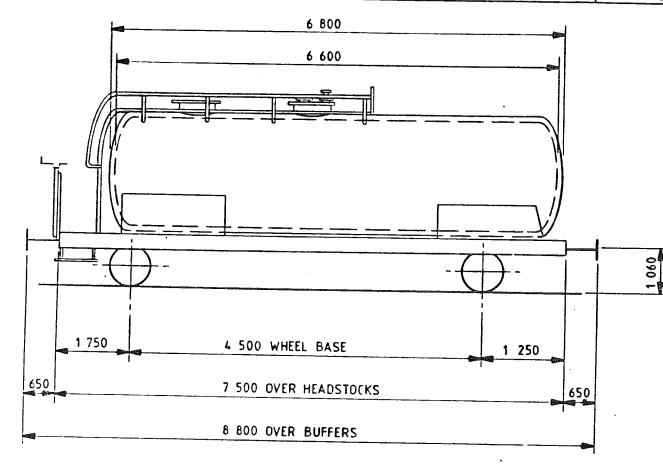
BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER
WHEELS -	¢1m
JOURNALS -	¢130

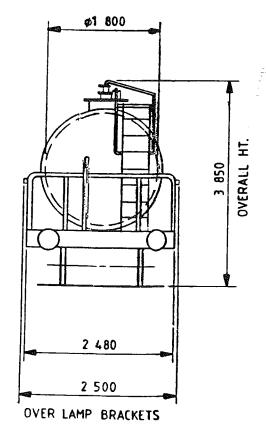
TYPE -	Zcefs	
WAGON No	23 80 7398 006,007	_
BUILDER -	V.T.G.	

Δ ' Original diagrams courtesy of CMMS Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

36t. GLW. 2 AXLE TANK

		A	B	C	D		TOPS INFO				
┢	Z	20 5ł	24·5t	24 St		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
						I C B E	50 mile/h UP TO 	St. FORCE UP TO St. FORCE ABOVE	LEIGTH		





ICE 282

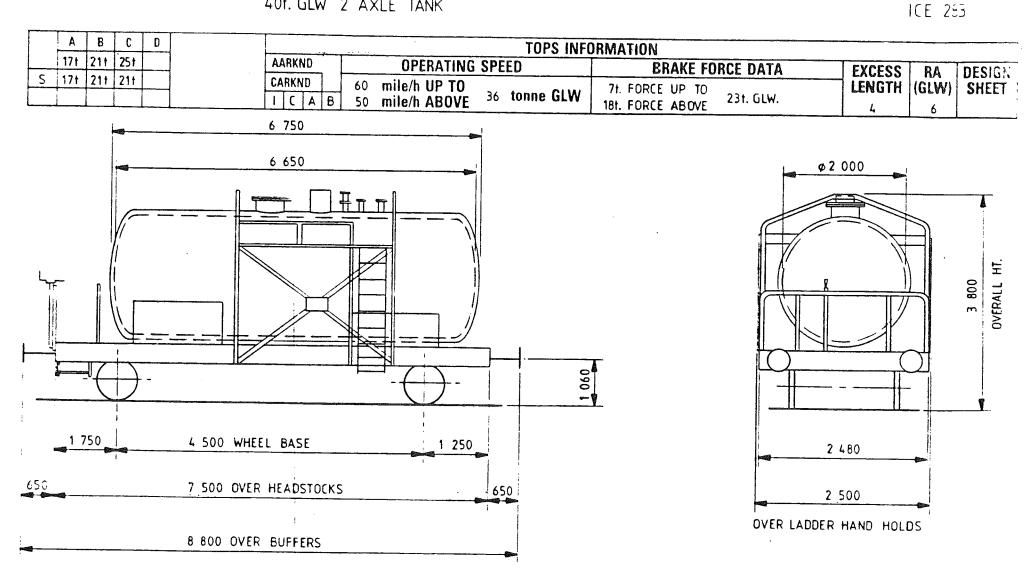
TARE -	11 500kg
CAPACITY, WEIGHT-	24.51
CAPACITY, VOLUME-	16m ³
FLOOR AREA -	•
MIN. CURVE -	60m
GEN. ARRGT. DRG. No.	- BT 1554-2

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AIR & VAC THRO' PIPE	
- SINGLE LINK	
U.I.C.	
HYDRAULIC Ø 370 HD	
¢940	
ø130	
	- SINGLE LINK U.I.C. HYDRAULIC Ø370 HD Ø940

TYPE -	Zcf
WAGON No	23 80 7191 700
BUILDER -	BADISCHE ANILIN & SODA WORKS
BUILDER - OWNER -	BADISCHE ANILIN & SODA WORKS BADISCHE ANILIN & SODA WORKS

401. GLW 2 AXLE TANK



TARE -	14 800kg
CAPACITY, WEIGHT-	25t
CAFACITY, VOLUME-	19 m ³
FLOOR AREA -	-
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	B.T. 1555-2

BRAKE - AIR, PLATFORM SCREW & SIDE LEVER								
SUSPENSION - SINGLE LINK, 9 LEAVE SPRING								
COUPLINGS -	U.I.C.							
BUFFERS -	HYDRAULIC Ø370 HD							
WHEELS -	ølm							
JOURNALS -	¢130							

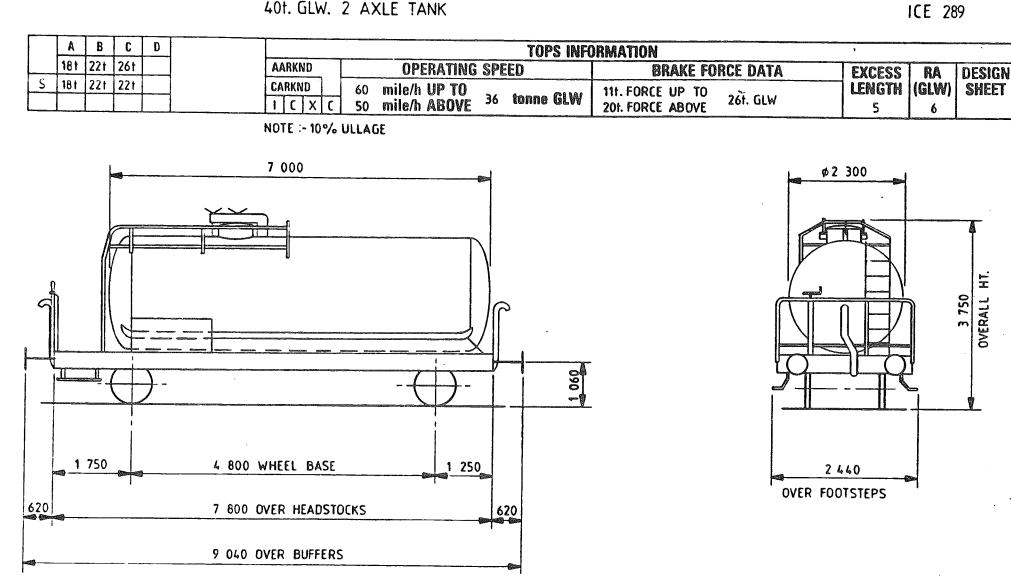
TYPE -	Zfs	
WAGON No	23 60 7390 417	
BUILDER -	BADISCHE ANDIN & SUCH WORKS	
OWNER -	BADISCHE AN UN & EDDA WORKS	,
	ISSUE 1	

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40t. GLW. 2 AXLE TANK



TARE -	14 000kg
CAPACITY, WEIGHT-	26t
CAPACITY, VOLUME-	27m ³
FLOOR AREA -	\$*
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	· · · · · · · · · · · · · · · · · · ·

BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø450 HD
WHEELS -	ølm
JOURNALS -	¢130

TYPE -	Zfs	
WAGON No	- 23 80 7390 405	
BUILDER -	HEINRICH WILHELM	
OWNER -	VEBA CHEMICALS	

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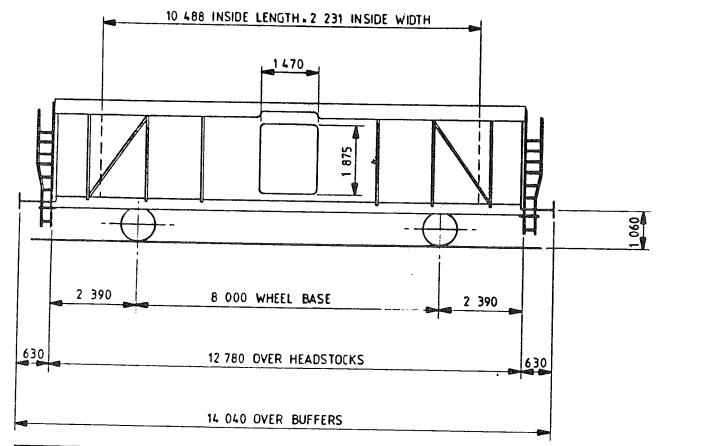
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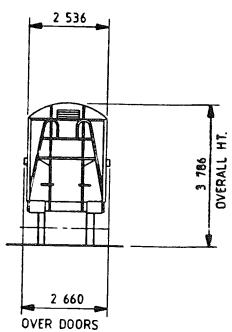
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ISSUE 1

401. GLW. 2 AXLE REFRIGERATOR VAN

		A	B	C	D		TOPS INFORMATION								
┝		1341				AARKND		OPERATING	SPI	EED	BRAKE FORC	E DATA	EXCESS	RA	DESIGN
┢	2	<u>13-41</u>	1/41	17-4	<u>† </u>	CARKND	60	mile/h UP TO	36	tonne GLW	131 FORCE UP TO		LENGTH		
L				i	_i	 ПТХН	_ 50	mile/h ABOVE			201 FORCE ABOVE	251. GLW	12	6	





TARE -	18·6†
CAPACITY, WEIGHT-	21:41
CAPACITY, VOLUME-	444m ³
FLOOR AREA -	23 [.] 5 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	

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BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 580 . 400
WHEELS -	ø1m
JOURNALS -	¢130

TYPE -	lbefhs
WAGON No	0488 8092 000-199
BUILDER -	BRUGEOISE ET NIVELLES
OWNER -	INTERFRIGO

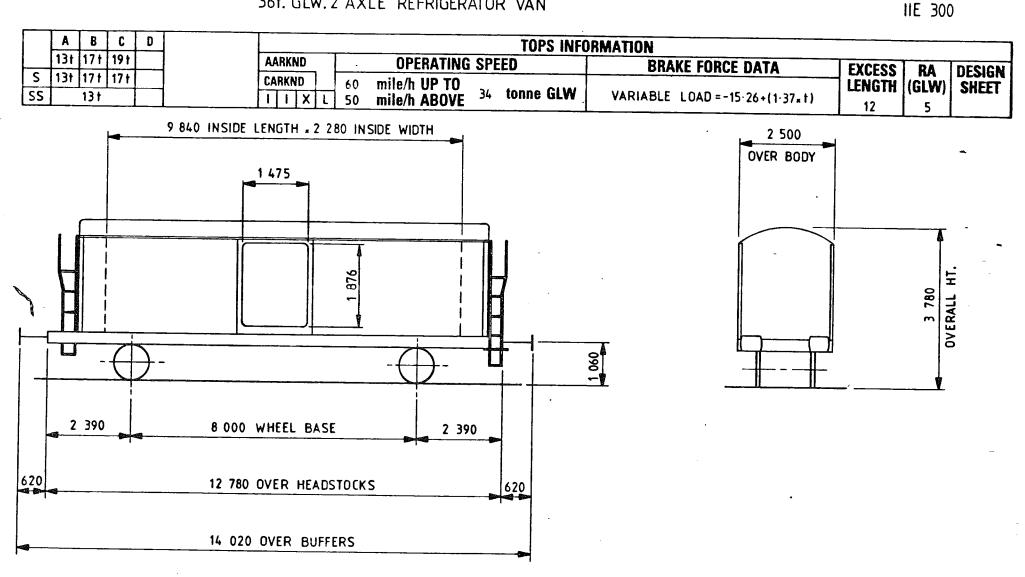
ISSUE 1

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36t. GLW. 2 AXLE REFRIGERATOR VAN



TARE -	17t
CAPACITY, WEIGHT-	19t
CAPACITY, VOLUME-	42 m ³
FLOOR AREA -	21 5 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 893 - 22 - 001

BRAKE -	DUAL : SIDE LEVER
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 520 . 400 HD
WHEELS -	¢1m
JOURNALS -	ø130

TYPE -	lbcefss
WAGON No	04 88 8089 983.985. 988-998
BUILDER -	
	BRUGEOISE AND NIVELLES
OWNER -	INTER FRIGO

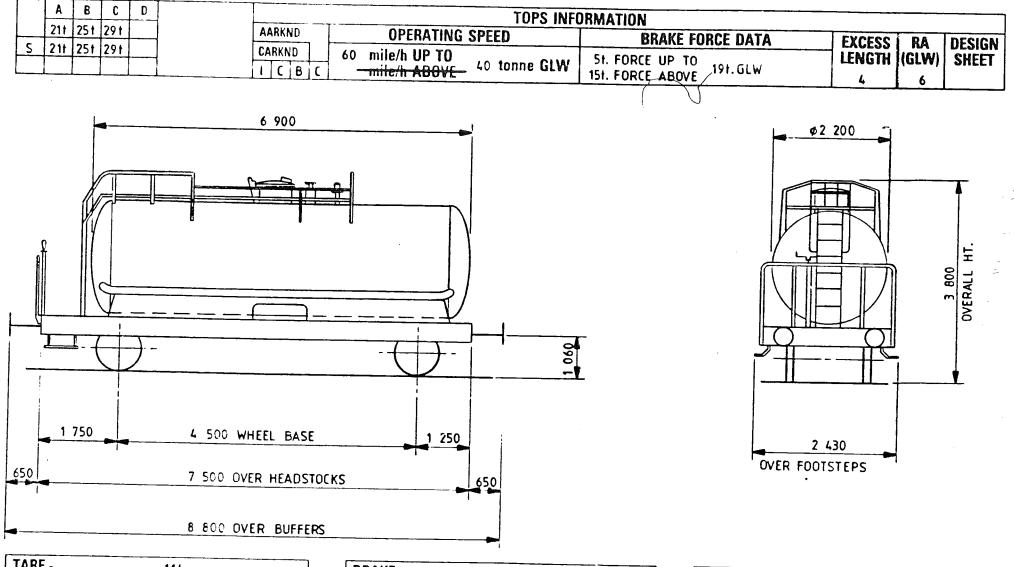
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ISSUE 1

40t. GLW. 2 AXLE TANK





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TARE -	111
CAPACITY, WEIGHT-	291
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 2333.01.445

1

AIR & VAC. THRO' PIPE
DOUBLE LINK
U.I.C.
HYDRAULIC Ø 380
ø1m
¢130

TYPE -	Zcfs	,	
WAGON No.	- 23 80 7391 016		
BUILDER -	V.I.G.		

ISSUE 1

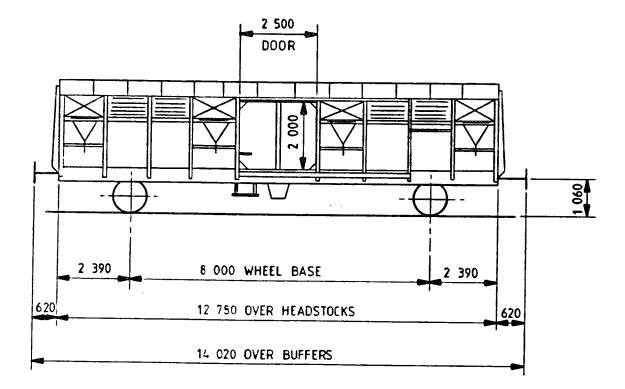
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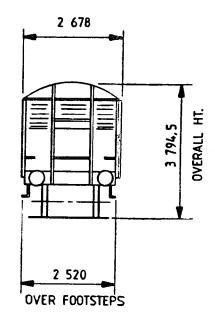
401. GLW. 2 AXLE VAN

	A	В	C	D		TOPS INFORMATION			
		221			AARKND	OPERATING SPEED AIR BRAKE FORCE DATA	EXCESS	RA	DESIGN
<u>S</u>	181	221	251		CARKND	60 mile/h UP TO 50 mile/h AROVE 39 tonne GLW 7t. FORCE UP TO 201 FORCE UP TO 201 FORCE UP TO 201 FORCE UP TO	LENGTH		SHEET
L	1		L			50 mile/h ABOVE 39 tonne GLVV 201 FORCE ABOVE 251. GLW.	12	6	

NOTE :- RESTRICTED TO 25 tonnes

DUE TO BRAKING CHARACTERISTICS





ILE 304

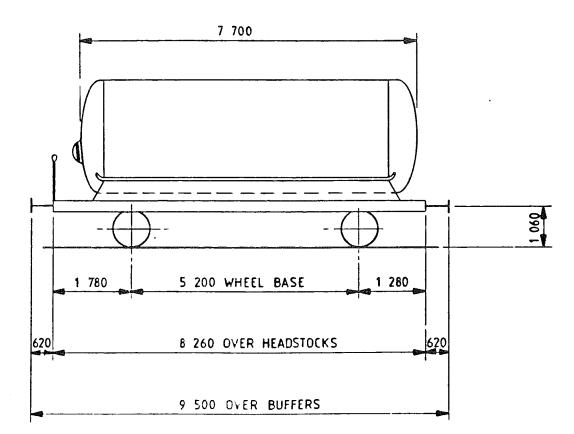
TARE -	141
CAPACITY, WEIGHT-	26†
CAPACITY, VOLUME-	69 m ⁻³
FLOOR AREA -	29 m ²
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	-10.148 160

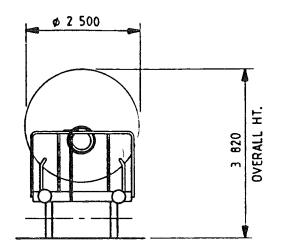
BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	ø1m
JOURNALS -	¢130

TYPE -	Hbfs
WAGON No.	- 21 87 2380 500-999
BUILDER -	-
OWNER -	S.N.C.F.

401.GLW. 2 AXLE TANK

	1	A	B	C	D		TOPS IN	ORMATION			
	18	31	221	26t		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	18	3 †	221	261		CARKND	60 mile/h UP TO mile/h ABOVE 40 tonne GLW	101 FORCE UP TO 261. GLW	LENGTH	(GLW)	SHEET





TARE -	14 t
CAPACITY, WEIGHT-	261
CAPACITY, VOLUME-	35 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 2641.01.455

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BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370
WHEELS -	ø1m
JOURNALS -	¢130

TYPE -	Zfgs	
WAGON No.	- 23 80 7394 000,001	
	VIG	
BUILDER - OWNER -	V.T.G.	

ISSUE 1

ICE 307

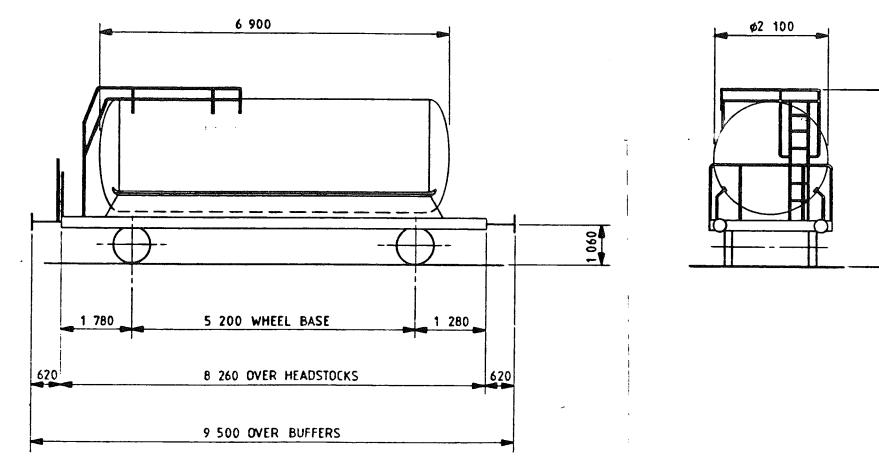
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401. GLW 2 AXLE TANK

		A	B	C	D	1727 X 2 X 40	TOPS INFO	DRMATION		2000-0000-000-000-000-00-00-00-00-00-00-	
	1	191	231	271		AARKND	OPERATING SPEED	BRAKE FORCE DATA	IN SESS	BA	DESIGN
	S	191	231	27t		CARKND	60 mile/h UP TO	6t. FORCE UP TO	MEST		SHEET
L				l		ICXC	-mile/h ABOVE 40 tonne GLW	15t FORCE ABOVE 19t. GLW	5	6	



TARE -	13†
CAPACITY, WEIGHT-	27t
CAPACITY, VOLUME-	22 m ³
FLOOR AREA -	······································
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 7511.80

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BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370 HD
WHEELS -	ø1m
JOURNALS -	ø130

TYPE -	Zfgs	
WAGON No.	- 23 80 7754-005	
BUILDER -	V.T.G.	
BUILDER - OWNER -	V.T.G. V.T.G.	

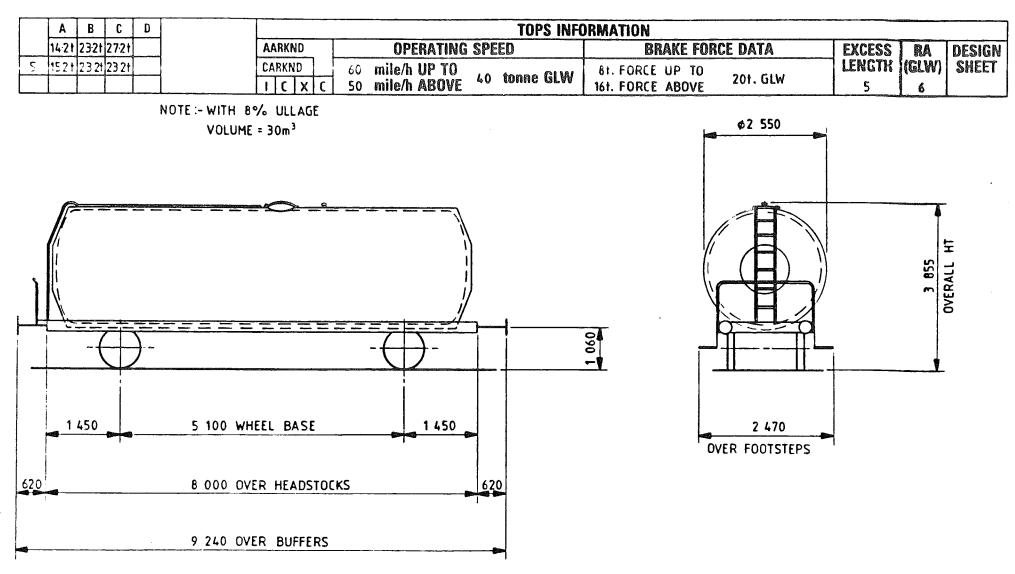
▲ ▲
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ICE 308

3 640 OVERALL HT. 40t. GLW. 2 AXLE TANK



TARE -	12.81
CAPACITY, WEIGHT-	27-21
CAPACITY, VOLUME-	32.5 m ³ (SEE NOTE)
FLOOR AREA -	(a)
MIN. CURVE -	60m
GEN. ARRGT. DRG. No.	- 1-2-0-154

BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø400 HD
WHEELS -	Ølm
JOURNALS -	¢130

TYPE -	Zefs
WAGON No.	- 23 87 7397 000-092
BUILDER -	C.F.P.M.

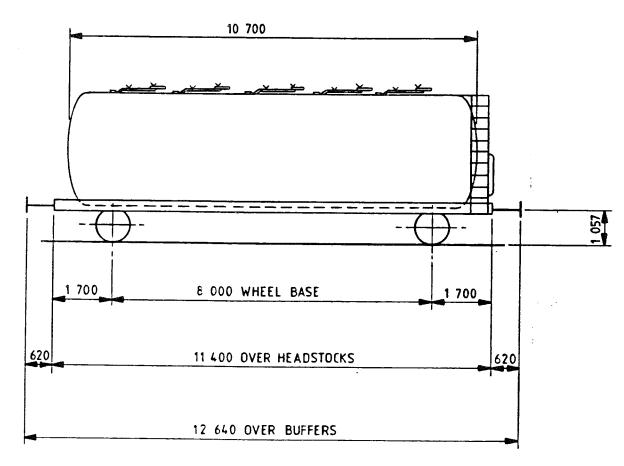
ICE 309

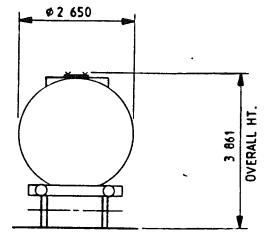
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40t. GLW. 2 AXLE TANK

ICE 314

		A	В		C	D		TOPS INFORMATION						
			20.8				AARKND	OPERATING SPEED	BRAKE FORCE	DATA	EXCESS	RA	DESIGN	
S	1	6.81	20.8	1 24	·8†		CARKND	60 mile/h UP TO 40 tonne GLW	91 FORCE UP TO		LENGTH	(GLW)	SHEET	
L			L				I C B B	mile/h ABOVE 40 tonne GLW	171 FORCE ABOVE	21t GLW	10	6		



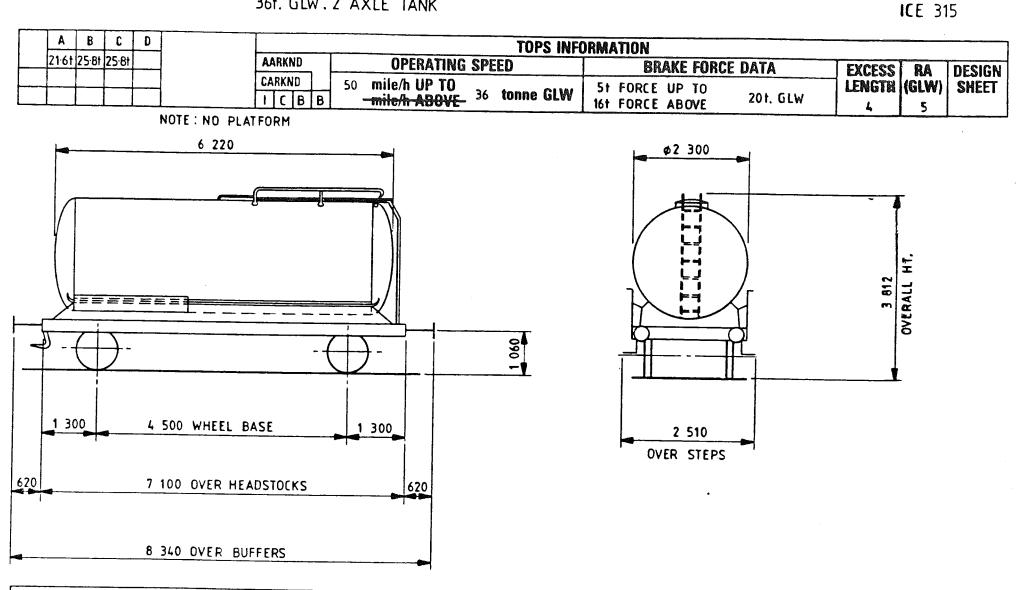


TARE -	15 2 t
CAPACITY, WEIGHT-	24 8t
CAPACITY, VOLUME-	49m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- B5087.01.1

BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION	- DOUBLE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC
WHEELS -	
JOURNALS -	¢130

TYPE -	Ucfkks
WAGON No.	- 23 80 9185 000-006
BUILDER -	WAGGON FABRIK

36t. GLW. 2 AXLE TANK



TARE -	10-241
CAPACITY, WEIGHT-	25·8t
CAPACITY, VOLUME-	24 m ⁻³
FLOOR AREA -	<u>.</u>
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 92685

BRAKE - AIR &	VAC THRO' PIPE : SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	SCREW
BUFFERS -	HYDRAULIC Ø400 HD
WHEELS -	ø1m
JOURNALS -	¢130

TYPE -	Zf
WAGON No.	- 23 87 7190 501 - 508
BUILDER -	FAUVET GIREL

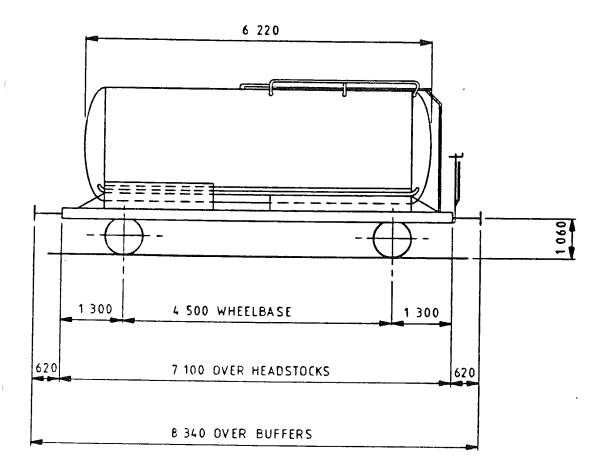
ISSUE 1

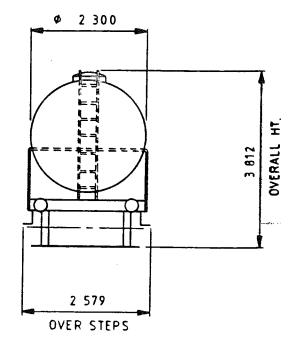
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40 t GLW 2 AXLE TANK

ICE 316

A B C D	DRMATION			<u> </u>		
21 6125 6125 61	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	CARKND S	0 mile/h UP TO mile/h ABOVE 36 tonne GLW	5 FORCE UP TO 16 FORCE ABOVE 20 F GLW	LENGTH 4	(GLW) 5	SHEET





TARE -	10.30 t
CAPACITY, WEIGHT-	25.6 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	•
MIN. CURVE -	60 m
GEN. ARRGT, DRG. No.	- 92686

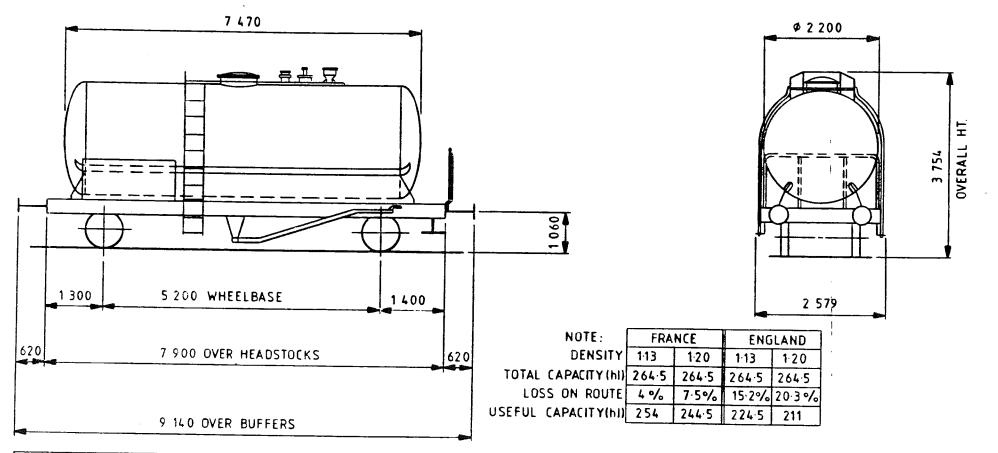
THRO PIPE PLATFORM SCREW & SIDE LEVER.
DOUBLE LINK
SCREW
HYDRAULIC Ø 400 HD.
Ø1m
Ø 130

TYPE -	Zf
WAGON No	23 87 7190 500,509
BUILDER -	FAUVET GIREL
	UNCE ONCE

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40 t GLW 2 AXLE TANK

A B C D		TOPS INFO	DRMATION	<u> </u>		
214125412941	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	CARKND	50 mile/h UP TO 	6 I FORCE UP TO 14 I FORCE ABOVE 22 I GLW	LEKGTH 5		SHEET

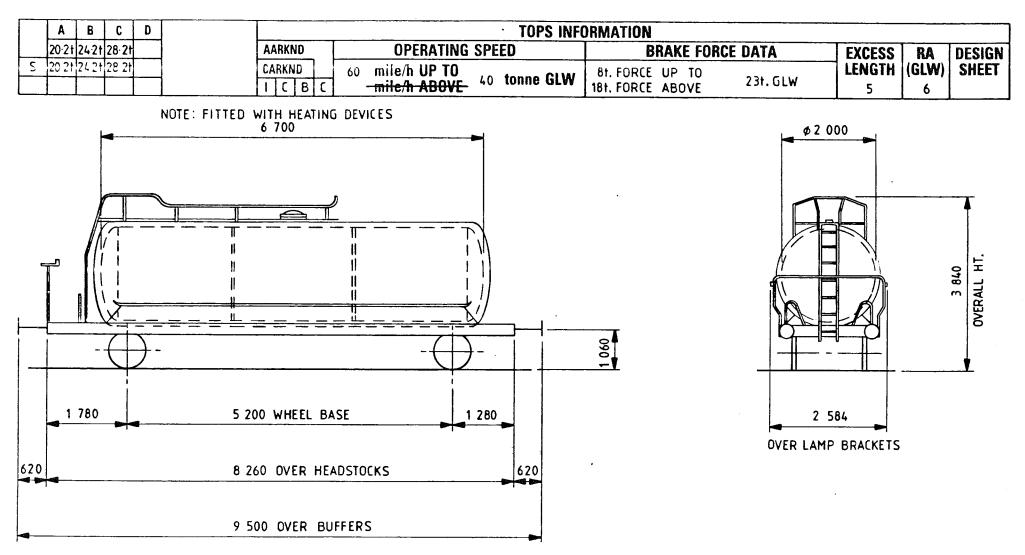


TARE -	10-5 t
CAPACITY, WEIGHT-	29 4 t
CAPACITY, VOLUME-	26 m ³ (SEE NOTE)
FLOGR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 53 167

BRAKE -	DUAL
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C. SCREW
BUFFERS -	HYDRAULIC Ø 370
WHEELS -	¢ 1m
JOURNALS -	Ø 130

TYPE -	Zcf
WAGON No	23 87 7191 023
BUILDER -	FAUVET-GIREL
BUILDER - Owner -	ITEROX CHIMIE

401.GLW. 2 AXLE TANK

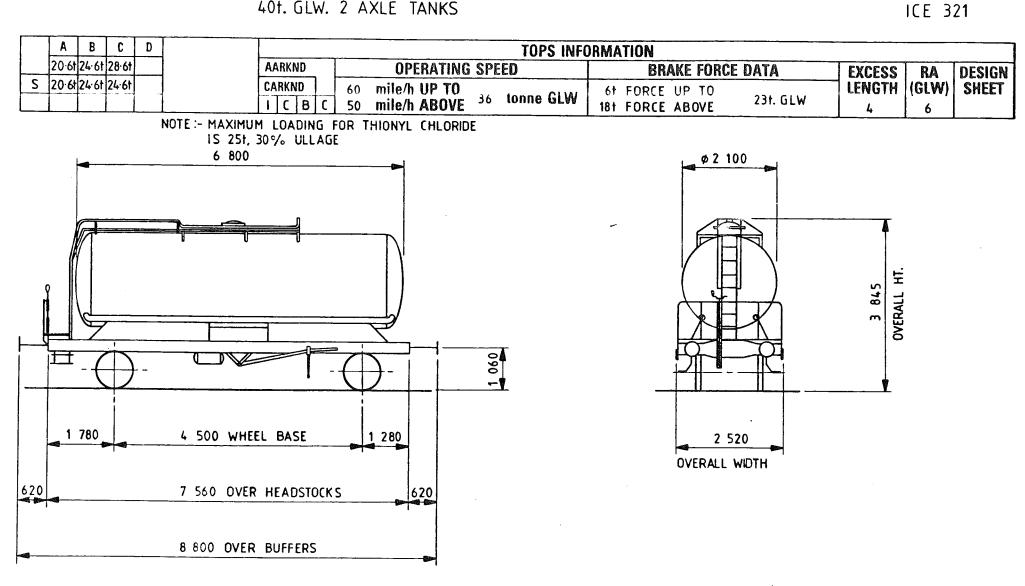


TARE -	11·8†
CAPACITY, WEIGHT-	28·2†
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- K194.0101

BRAKE - AIR & V	AC. THRO' PIPE : PLATFORM SCREW & SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370
WHEELS -	ø 1m
JOURNALS -	ø130

TYPE -	Zcefs
WAGON No.	- 23 80 7398 603
BUILDER -	GRAAFF ELZE
OWNER -	CONTINENTAL OIL TRANSPORT

40t. GLW. 2 AXLE TANKS



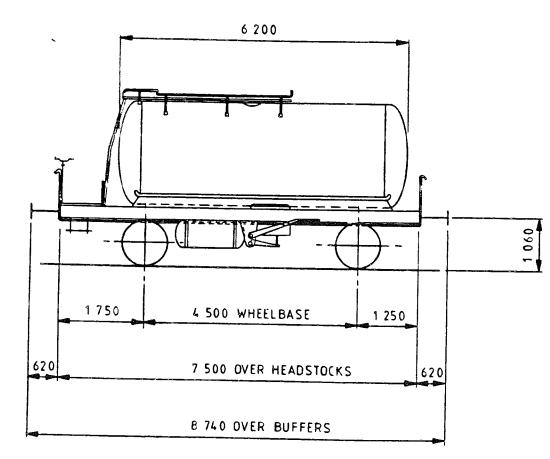
TARE -	11.41
CAPACITY, WEIGHT-	28·6†
CAPACITY, VOLUME-	22 m ³
FLOOR AREA -	•
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 2219.01.479

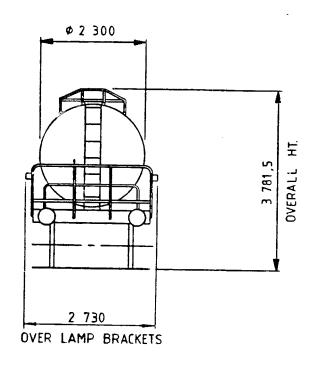
BRAKE - AIR & V	AC. THRO' PIPE : PLATFORM SCREW & SIDE LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370
WHEELS -	ø1m
JOURNALS -	ø130

TYPE -	Zcfs
WAGON No.	- 23 80 7391 012,013
	₩-
BUILDER -	V.T.G.
OWNER -	V.T.G.

40 + GLW 2 AXLE TANK

	2	A	B 25 +	C 29 t	D			ORMATION			
	5 2			291		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
F	+	- 1	231	271			60 mile/h UP TO mile/h APOVE 40 tonne GLW	8 + FORCE UP TO 22 + GLW	LENGTH	(GLW)	SHEET
ė							mile/h-ABOVE_ 40 tonne GLW	20 + FORCE ABOVE 22 + OLW	4	6	





TARE -	11 t
CAPACITY, WEIGHT-	29 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- W14 76

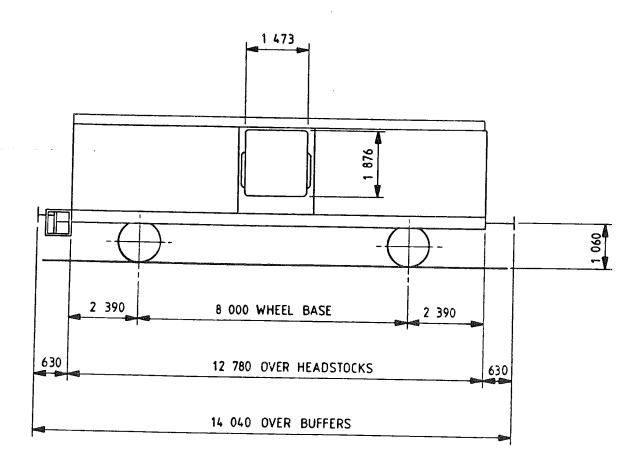
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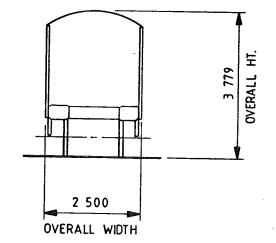
BRAKE -AIR & VAC	THRO'PIPE PLATFORM SCREW & SIDE LEVER
SUSPENSION -	
COUPLINGS -	U.I.C.
BUFFERS -	RING FEDER
WHEELS -	Ø 1m
JOURNALS -	Ø 130

TYPE -	Zfs
WAGON No	23 80 7390 406,407.
BUILDER -	KAMINSKI
BUILDER - OWNER -	KAMINSKI PEROXID - CHEMIE

36t. GLW. 2 AXLE REFRIGERATOR VAN

	-	A	B	C 19-3†	D		TOPS INFORMATION							
s	_		_	19.31		AARKND		OPERATING	SPE	ED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
SS			15·3t	1751		 CARKND	75 _60	mile/h UP TO mile/h ABOVE	32	tonne GLW	VARIABLE LOAD = -1.24 + (0.73 + 1)	LENGTH		





IIE 326

TARE -	16·7†
CAPACITY, WEIGHT-	19.31
CAPACITY, VOLUME-	51 m ³
FLOOR AREA -	26 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	893-22 -007

BRAKE -	DUAL : SIDE LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	ø1m
JOURNALS -	ø 130

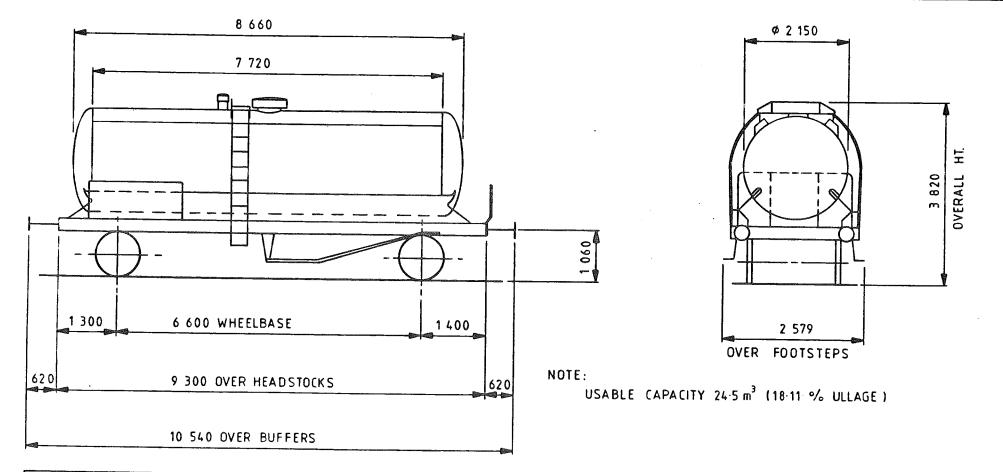
TYPE -	Ibflps
WAGON No.	-04 88 8091 002-008
	a ser a company a company a company a series a company a company a company a company a company a company a comp
BUILDER -	LA BRUGEOISE & NIVELLE
BUILDER - DWNER -	LA BRUGEOISE & NIVELLE

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40 t GLW 2 AXLE TANK

		A	В	C	D		TOPS INFORMATION				
-				27.11		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	2	19.31	23.31	27.11		CARKND	60 mile/h UP TO 40 tonne GLW	6 + FORCE UP TO DE LETT	LENGTH		
L						ICXI	-mile/h-ABOVE- 40 tonne GLAA	18 + FORCE ABOVE 23 + GLW	7	6	



TARE -	12.88 t
CAPACITY, WEIGHT-	27·1 ł
CAPACITY, VOLUME-	30 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 93731

DUAL
DOUBLE LINK
U.I.C.
HYDRAULIC Ø 370
Ø 1m
ø 130

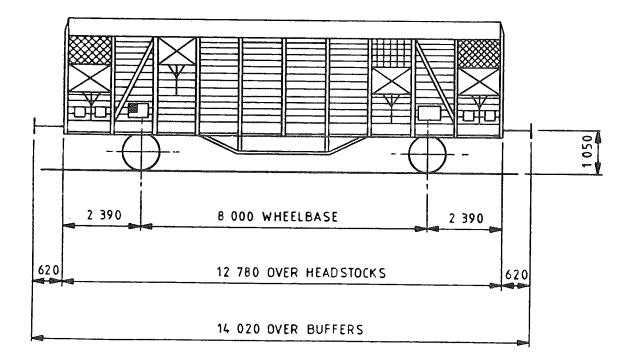
TYPE -	Zfs
WAGON No	23 87 7390 005,006,007.
RHIINED_	FALLVET CIDEL
BUILDER -	FAUVET GIREL
BUILDER - OWNER -MET	FAUVET GIREL TROPOLITAN SOCIETY FOR SPECIAL

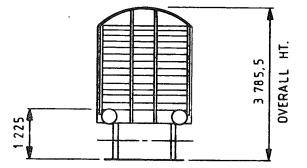
ICE 327

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40 + GLW 2 AXLE VAN

	A	B	C	D		TOPS INFORMATION				
			261		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
LS	118 1	1221	261		CARKND	50 mile/h UP TO 10 toppe Clust	14 I FORCE UP TO DO A CIN		(GLW)	SHEET
	<u> </u>		l		IBL	milc/h-ABOVE 40 tonne GLW	24 T FORCE ABOVE 30 T GLW	12	5	





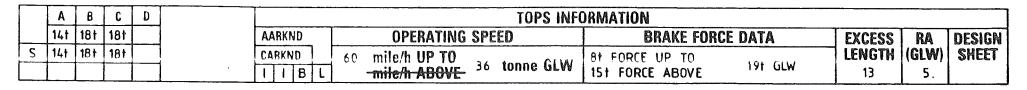
11E 329

TARE -	14 t
CAPACITY, WEIGHT-	26 t
CAPACITY, VOLUME-	66 m ³
FLOOR AREA -	28 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 38

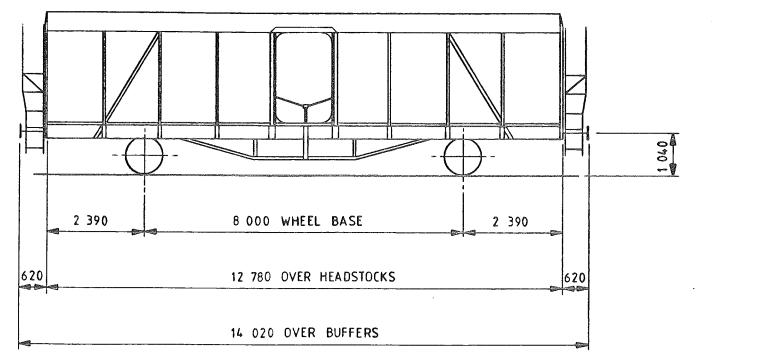
AIR & VAC.THRO'PIPE: SIDE LEVER
- DOUBLE LINK
U.I.C.
HYDRAULIC
Ø 1 m
Ø 130

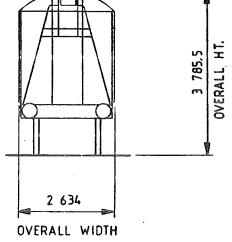
TYPE -	Hbfhs	
WAGON No.	- 21 83 2382 000 - 299	
-	~	
BUILDER -	F. S.	
BUILDER - Owner -	F. S. F. S.	

36t. GLW. 2 AXLE REFRIGERATOR VAN



NOTE: CAPACITY INCLUDES APPROX 3t OF ICE





11E 331

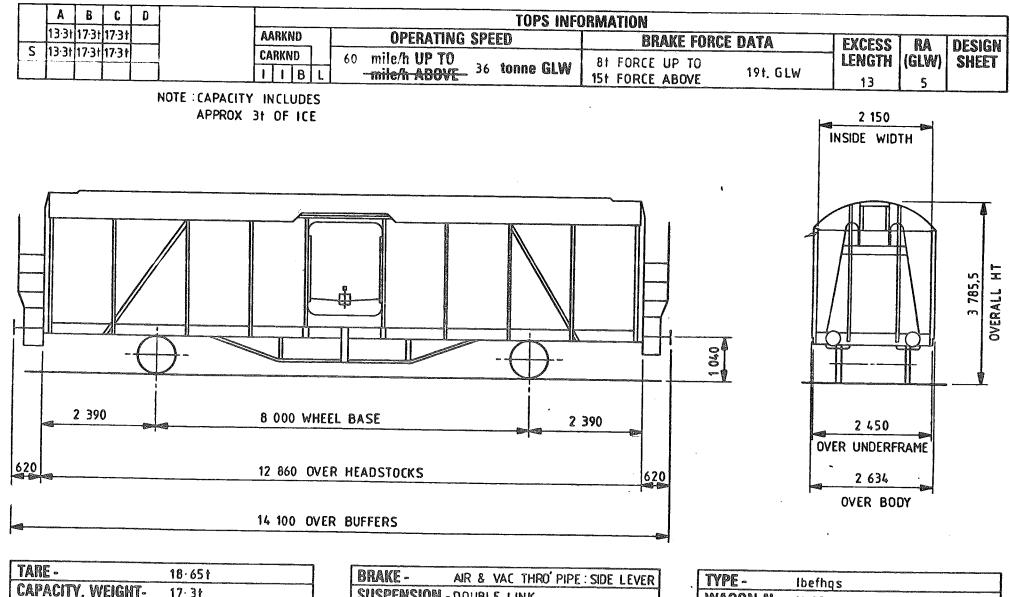
. .

TARE -	181	
CAPACITY, WEIGHT-	18†	
CAPACITY, VOLUME-	52m ³	
FLOOR AREA -	24 · 5 m ²	
MIN. CURVE -	60m	
GEN. ARRGT. DRG. No	,-160	

BRAKE -	AIR & VAC THRO' PIPE.
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ølm
JOURNALS -	ø 130

Ibefs
11 83 8092 900 - 999
,
F.S.
F.S.

361 GLW. 2 AXLE REFRIGERATOR VAN



TARE -	18.651
CAPACITY, WEIGHT-	17·3ł
CAPACITY, VOLUME-	46 m ³
FLOOR AREA -	23 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. NO) 160

BRAKE -	AIR & VAC THRO' PIPE : SIDE LEVER
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø1m
JOURNALS -	¢130

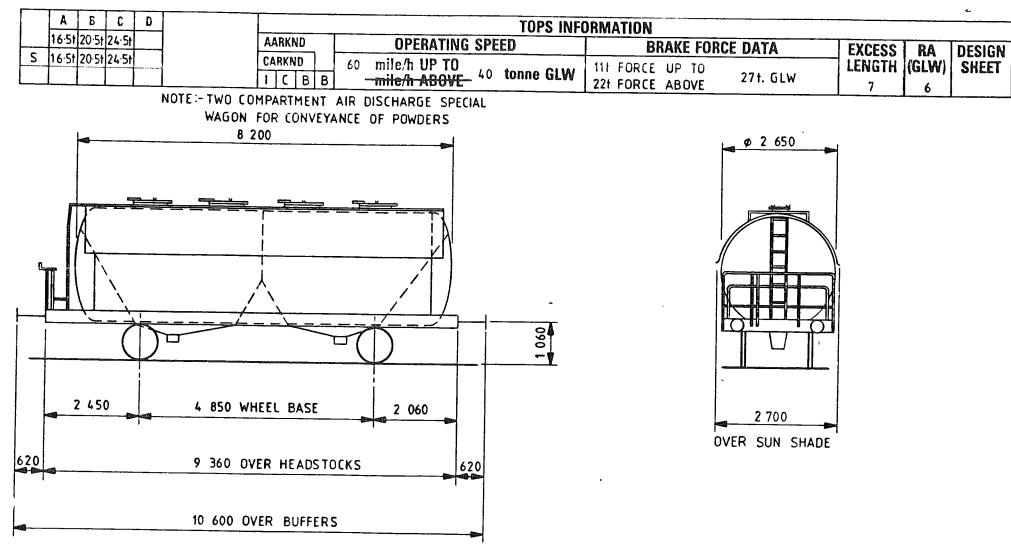
TYPE -	lb	efhqs	n an	and the second
WAGON	Mo 11	83 8090	000 - 049	
BUILDER	<u> </u>	s.		, I
OWNER -	- F.S	S.	and a state of the second s	
			ISSUE 1	,

17

IIE 332

401. GLW 2 AXLE TANK

ICE. 333 __



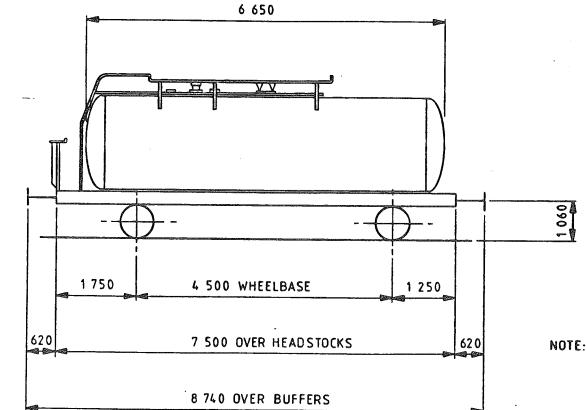
TARE -	15·5t
CAPACITY, WEIGHT-	24·5†
CAPACITY, VOLUME-	35 m ³
FLOOR AREA -	÷
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- B5090.01.1

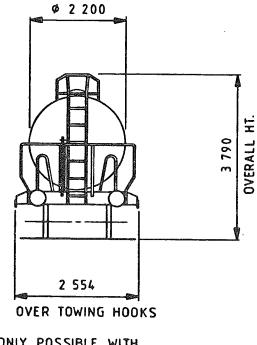
the second se	
BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION -	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER
WHEELS -	ø1m
JOURNALS -	ø130

TYPE -	Ucfkks
WAGON No	23 80 9185 000-009
BUILDER -	WAGGONFABRIK, KREFELD
OWNER -	E.V.A.
	10.011

40 + GLW 2 AXLE TANK

\sim		A	В	C	D				ORMATION]
-			25			-	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	5	21 1	25	H 25	1	-	CARKND	60 mile/h UP TO	8 + FORCE UP TO 22 4 GUA	LENGTH	(GLW)	SHEET
				<u> </u>			ICBB	50 mile/h ABOVE 36 tonne GLW	18 + FORCE ABOVE 23 + GLW	4	6	





NOTE: NORMAL FILLING ONLY POSSIBLE WITH. SPECIFIC GRAVITY OF 1-1 OR LESS.

TARE -	11 ł	
CAPACITY, WEIGHT-	29 1	
CAPACITY, VOLUME-	24 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	- K 219·32·01	

BRAKE -AIR & VAC	THRO'PIPE PLATFORM SCREW, SIDE SCREW
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370
WHEELS -	Øîm
JOURNALS -	Ø 130

TYPE -	Zefs
WAGON No.	- 23 80 7397 001 - 005
BUILDER -	GRAAF
BUILDER - OWNER -	GRAAF E.V.A.

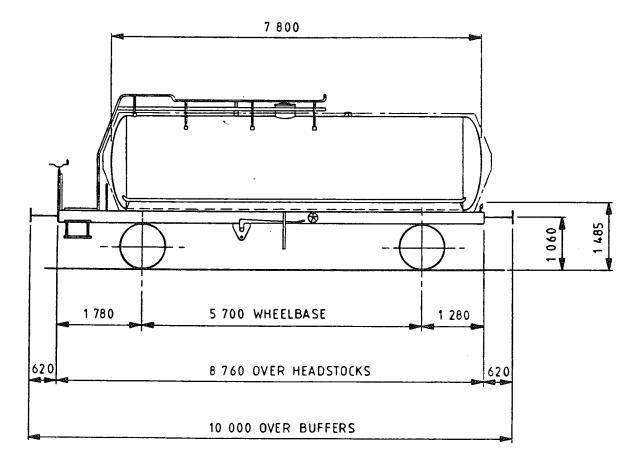
ICE 335

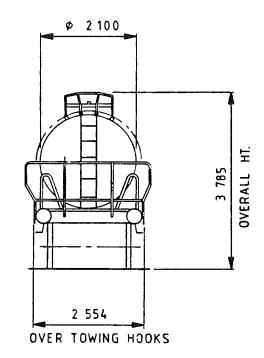
Original © BRB Residuary Ltd

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40 T GLW 2 AXLE TANK

Γ		A	B	C	D		TOPS INFO	DRMATION		······.	
	†	19·6 t	23.61	27.61		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
			23.61	27.61		CARKND	60 mile/h UP TO 	8 + FORCE UP TO 22 + CIVI	LENGTH	(GLW)	SHEET
L						ICBC	mile/h ABOVE_ 40 tonne GLW	18 + FORCE ABOVE 23 + GLW	6	6	





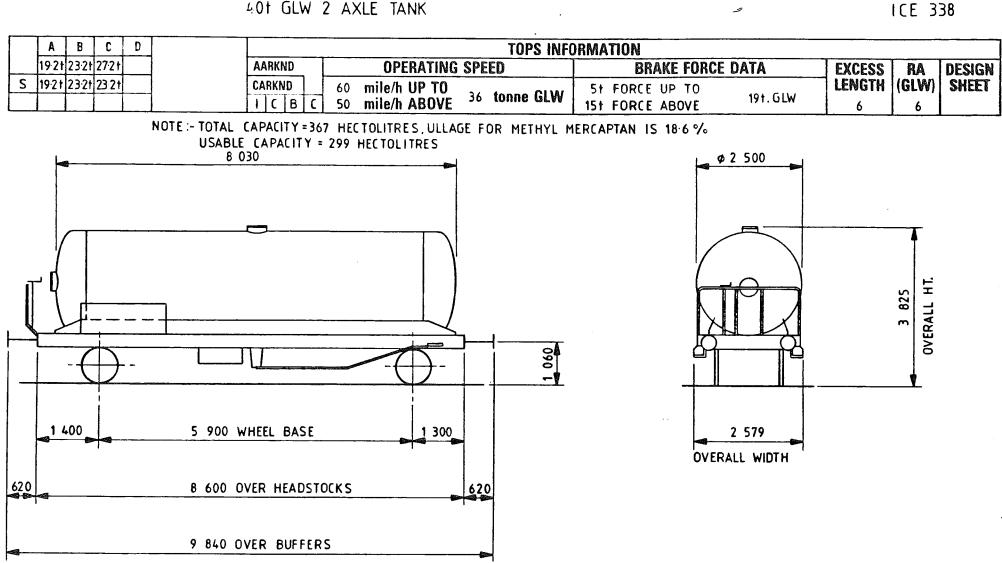
ICE 336

TARE -	12·4 t
CAPACITY, WEIGHT-	27·6 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- К 332.01.00

BRAKE -AIR & VAC	THRO'PIPE PLATFORM SCREW & SIDE LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RING FEDER Ø 370 HD.
WHEELS -	ølm
JOURNALS -	Ø 130

TYPE -	Zcefs
WAGON No	
	23 80 7391 703, 704, 705, 706, 707
	401, 402, 403, 404, 405
BUILDER -	GRAAFF
OWNER -	CONTINENTAL OIL TRANSPORT
	ISSUE 1

401 GLW 2 AXLE TANK



TARE -	12·65 t
CAPACITY, WEIGHT-	27-21
CAPACITY, VOLUME-	36·74 m ³
FLOOR AREA -	.
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	94547

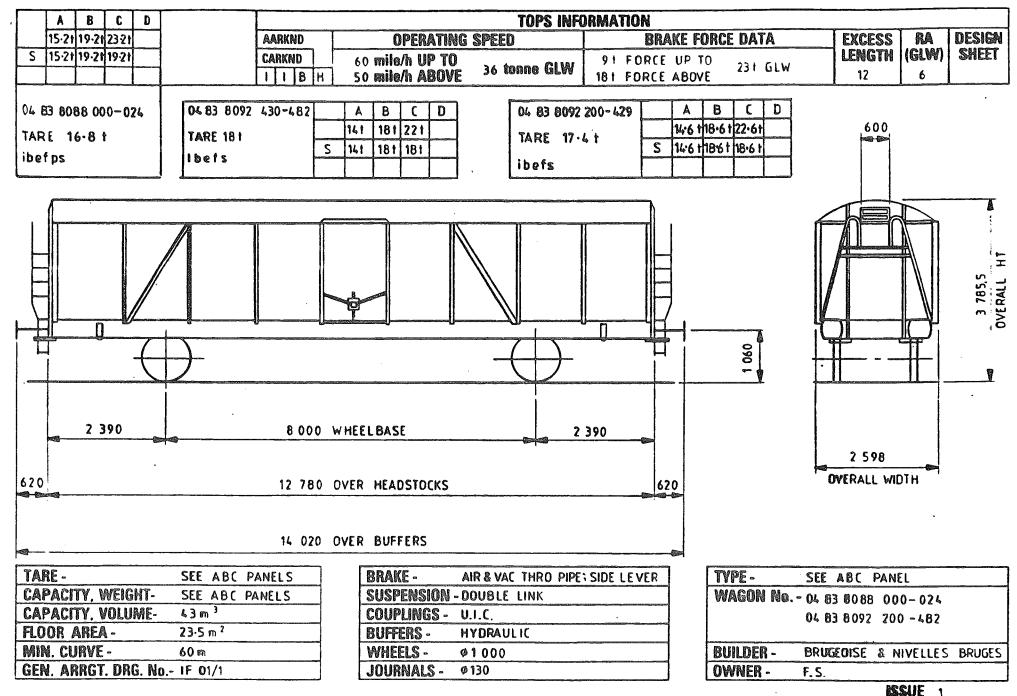
BRAKE - AR & V	AC . THRO'PIPE, PLATFORM SCREW & SDE LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø 370
WHEELS -	ø1m
JOURNALS -	ø 130 ·

TYPE -	Z fgks
WAGON No.	- 23 87 7395 000
BUILDER -	FAUVET - GIREL
OWNER -	SIMOTRA
	ISSUE 1

Original © BRB Residuary Ltd

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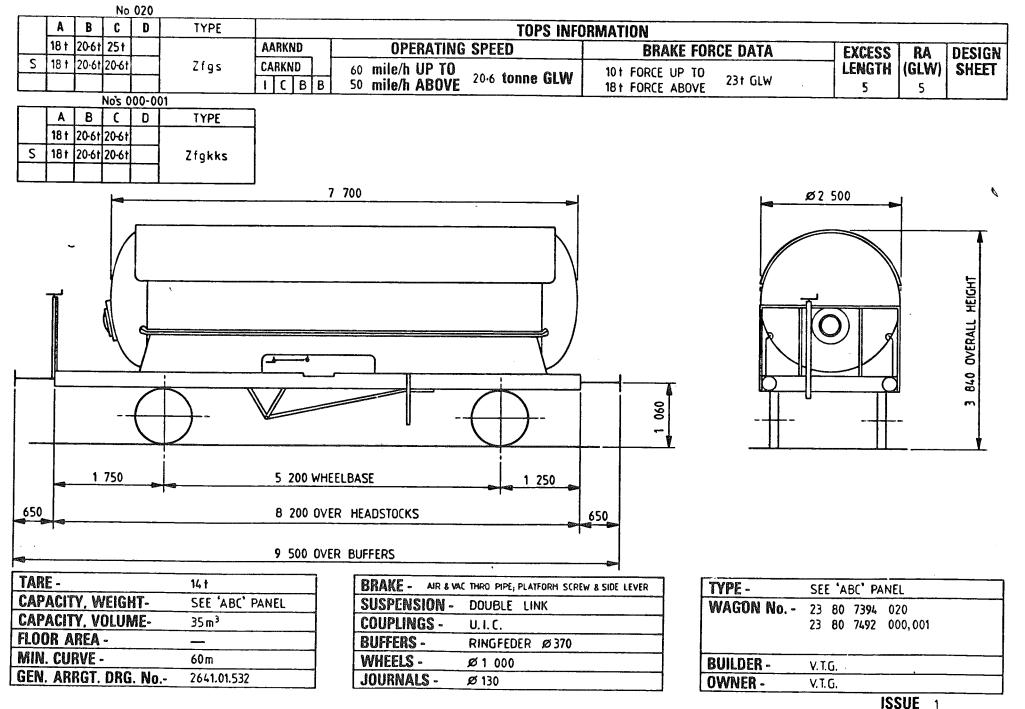
40 t G LW 2 AXLE REFRIGERATOR VAN



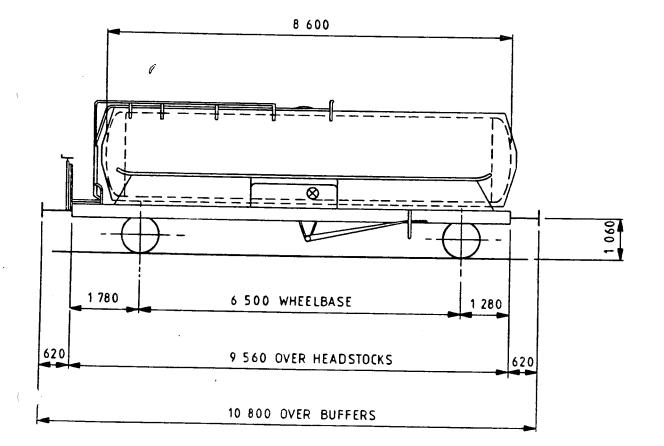
IIE 348

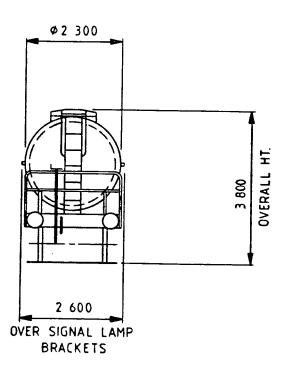
Original © BRB Residuary Ltd

2 AXLE TANK WAGON



C B D A **TOPS INFORMATION** 18.6t 22.6t 26.út AARKND **OPERATING SPEED BRAKE FORCE DATA EXCESS** RA DESIGN 18.6t 22.6t 26.6t S CARKND mile/h UP TO mile/h ABOVE-LENGTH (GLW) SHEET 60 8 + FORCE UP TO 40 tonne GLW 24 t GLW ICBC 19 + FORCE ABOVE 7 6





ICE 351

TARE -	13·4 t	
CAPACITY, WEIGHT-	26.6 t	
CAPACITY, VOLUME-	28 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	- 2351.01.533	i

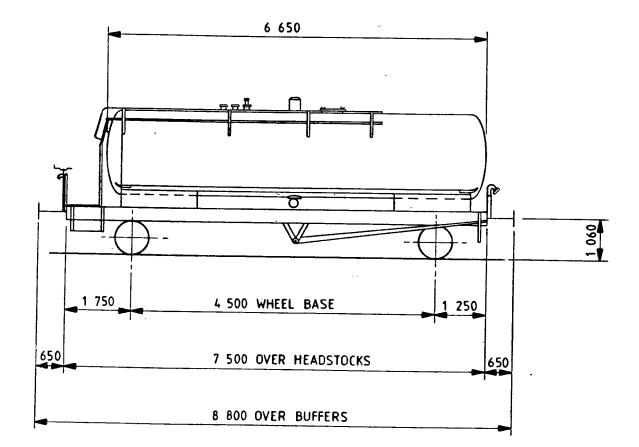
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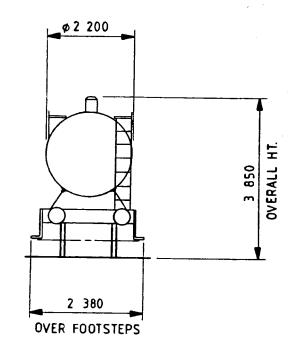
BRAKE -AIR & VAC	THRO PIPE PLATFORM SCREW & SIDE LEVER
SUSPENSION ·	
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370 HD
WHEELS -	Ø 1 m
JOURNALS -	Ø 130

TYPE -	Zcefs	
WAGON No.	- 23 80 7398 000	
BUILDER -	V.T.G.	
OWNER -	V.T.G.	_

401 GLW 2 AXLE TANK

	A	B	C	D		TOPS INFORMATION]	
┝	21	251	29 t		AARKND	OPERATING SPEED	BRAKE FORCE	DATA	EXCESS	RA	DESIGN
					CARKND	50 mile/h UP TO mile/h ABOVE 40 tonne GLW	81 FORCE UP TO 181 FORCE ABOVE	23t.GLW	LENGTH		SHEET





TARE -	11†
CAPACITY, WEIGHT-	29t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 328.2

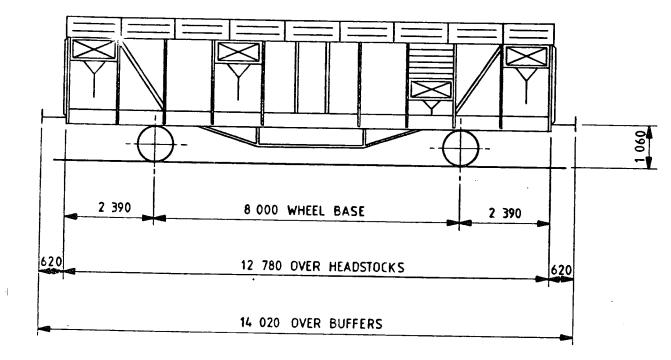
BRAKE - AIR & V	AC. THRO'PIPE SIDE LEVER, PLATFORM SCREW
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC \$400 HD.
WHEELS -	Ø940
JOURNALS -	¢130

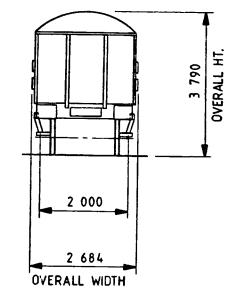
TYPE -	Zcf
WAGON No.	- 23 80 7191 400
BUILDER -	E.V.A.
OWNER -	E.V.A.

•• •

401.GLW. 2 AXLE VAN

		TOPS INF	DRMATION		
17-5t 21-5t 25-5t	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA DESIG
S 17-51 21-51 21-51		0 mile/h UP TO 0 mile/h ABOVE 36 tonne GLW	7t. FORCE UP TO 15t. FORCE ABOVE 19t. GLW	LENGTH (GLW) SHEE
	OF LOAD THE MIDDLE THE MIDDLE	CARRYING CAPACITY 13-78† 15-74†			<u> </u>





ILE 353

14·5t
25·5t
66 m ³
28.5 m ²
60 m
459.9.502.00.00.0

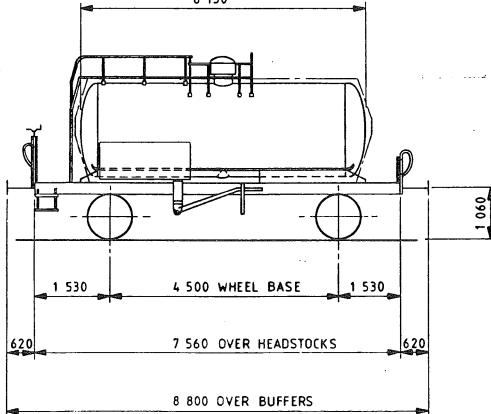
BRAKE -	AIR & VAC. THRO, PIPE: SIDE LEVER
SUSPENSION -	
COUPLINGS -	W.C.
BUFFERS -	HYDRAULIC 450 350 HD
WHEELS -	ø1m
JOURNALS -	ø130

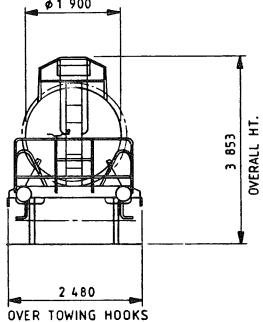
TYPE -	Hbfs
WAGON No.	- 21 54 2380 000-099
BUILDER -	

ISSUE 1

401. GLW. 2 AXLE TANK

	ABC		C	C D	C D	C D	D	D	D	D	C D	1		TOPS INFO	DRMATION			
	17·2†	2121	252	†]	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN							
S	17·2†	21.21	25 2	t 		CARKND	50 mile/h UP TO mile/h ABOVE_40 tonne GLW	61 FORCE UP TO 151 FORCE ABOVE 191. GLW	LENGTH 4	(GLW) 6	SHEET							
							,											
			đ	.	6 150			ø 1 900										





TARE -	14·8†
CAPACITY, WEIGHT-	25-21
CAPACITY, VOLUME-	16 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 2013.01.536

BRAKE - AIR & VAC	THRO' PIPE : SIDE LEVER & PLATFORM SCREW
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø370 HD
WHEELS -	ø1m
JOURNALS -	ø130

TYPE -	Zcfs : Zcfkks
WAGON No.	- 23 80 7 391 017-023,049-051
	23 80 7491 000-012
BUILDER -	V.T.G.
OWNER -	V.T.G.

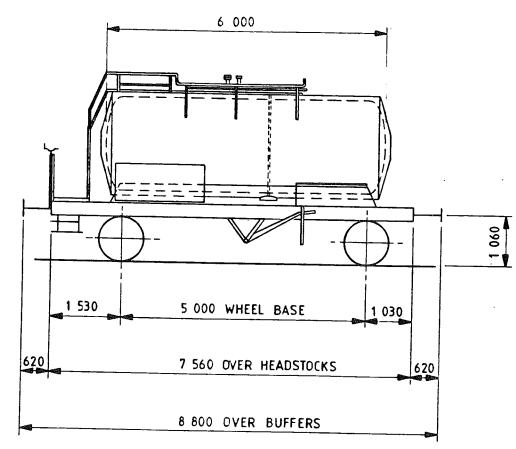
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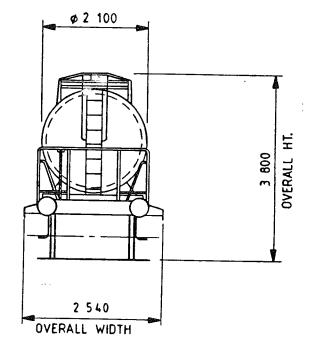
2

401.GLW. 2 AXLE TANK

ICE 356

	A B C D DB C		TOPS INFO	DRMATION			
ł	19-31 23-31 27-31 ONLY S 19-31 23-31 23-31 S 27-31	CARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS		DESIGN
ľ		I C B C	60 mile/h UP TO 50 mile/h ABOVE 36 tonne GLW	61 FORCE UP TO 201 FORCE ABOVE	LENGTH	(GLW)	SHEET
				ZVI TURCE ADUVE	4	6	1





TARE -	12·7 t	
CAPACITY, WEIGHT-	27·3†	٦
CAPACITY, VOLUME-	18 m ³	
FLOOR AREA -	-	7
MIN. CURVE -	60 m	۲
GEN. ARRGT. DRG. No.	- 2017.01.541	٦

BRAKE -	AIR & VAC. THRO' PIPE
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370 HD
WHEELS -	ølm
JOURNALS -	ø130 ·

TYPE -	Zcfs
WAGON No	23 80 7391 024,025
BUILDER -	V.T.G.
OWNER -	V.T.G.

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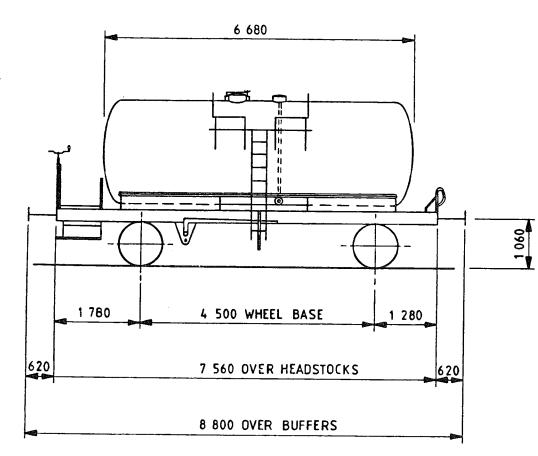
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

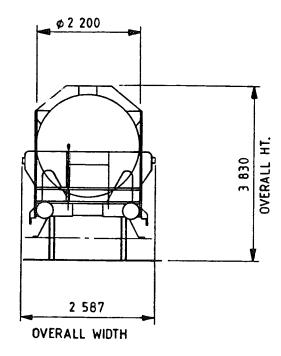
ISSUE 1

401. GLW. 2 AXLE TANK

ICE 357

	A	В	C	D	DB	C				TOPS INFO	DRMA	TION	·····	·		
		23 5 †			ONLY		AARI	ND	OPERATING	SPEED		BRAKE FORCE	DATA	EXCESS	RA	DESIGN
S	19.51	23·5t	23·5t	1	S	27·5t	CARM	ND	60 mile/h UP TO		91	FORCE UP TO	. .	LENGTH		SHEET
		L					<u> </u>	BC	50 mile/h ABOVE	36 tonne GLW	211	FORCE ABOVE	24t. GLW	4	6	





TARE -	12·5†
CAPACITY, WEIGHT-	27.51
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	e
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	K309.01.00

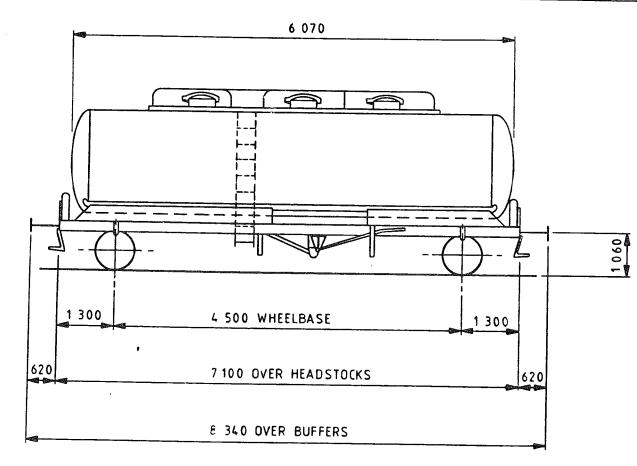
BRAKE -AIR & VAC	THRO PIPE : SIDE LEVER & PLATFORM SCREW
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø 370
WHEELS -	ø1 000
JOURNALS -	ø130

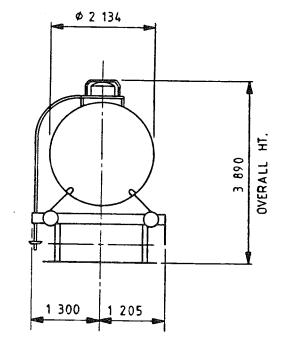
TYPE -	Zefs	
WAGON No.	- 23 80 7397 000	
BUILDER -	GRAAFF .	

1

40 t GLW 2 AXLE TANK

	A	B	C	D		TOPS INFO	DRMATION		
	-	4	27.4	4	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA DESIGN
	19.4	23.4	23.4	·	CARKND	60 mile/h UP TO 50 mile/h ABOVE 36 tonne GLW	B + FORCE UP TO	LENGTH	
L		L	I	<u> </u>		50 mile/h ABOVE 50 tolline GLAV	21 + FORCE ABOVE 24 + GLW	4	5





ICE 361

TARE -	12.54 1
CAPACITY, WEIGHT-	27-4 +
CAPACITY, VOLUME-	21 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 426

BRAKE -	AIR & VAC. THRO PIPE
SUSPENSION .	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 1m
JOURNALS -	Ø 130

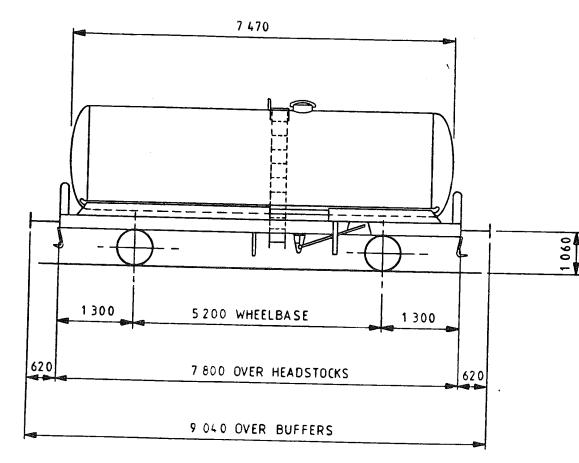
- 23 87 7390 514	
ATELIERS-DE JOIGNY	

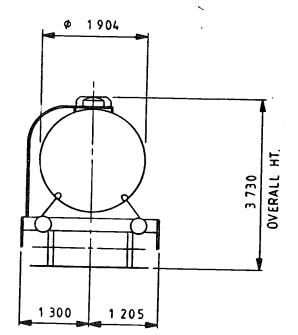
Original © BRB Residuary Ltd - Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

40 T GLW 2 AXLE TANK

	A 211	B	D			DRMATION			
E	S 211			AARKND CARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
Ľ					60 mile/h UP TO 50 mile/h ABOVE ³⁶ tonne GLW	5 + FORCE UP TO 15 + FORCE ABOVE 19 + GLW	LENGTH 5	(GLW) 5	SHEET

4





.

TARE -	11 ł	
CAPACITY, WEIGHT-	29 t	
CAPACITY, VOLUME-	20 m ³	
FLOOR AREA -	-	
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	- 427	

А

BRAKE -	AIR; VAC THRO'PIPE
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	ø 1 m .
JOURNALS -	Ø 130

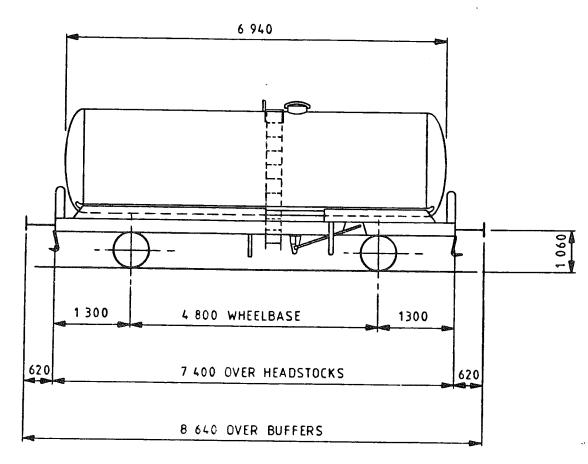
TYPE -	Zfs	
WAGON No	23 87 7390 507	
		•
BUILDER -	ATELIERS DE JOIGNY	

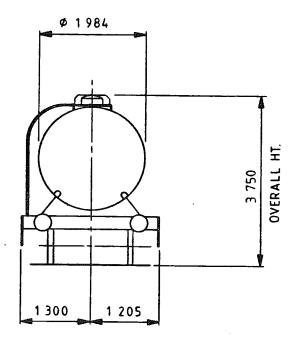
ISSUE 1

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40 + GLW 2 AXLE TANK

A	4	B	C	D		TOPS INFORMATION			
 			28.9		AARKND	OPERATING SPEED BRAKE FORCE DATA	EXCESS	RA	DESIGN
20.	.91	24.91	24.9		I C B B	60 mile/h UP TO 50 mile/h ABOVE 36 tonne GLW 5 t FORCE UP TO 15 t FORCE ABOVE 19 t GLW		(GLW) 5	





ICE 363

TARE -	11-1 †
CAPACITY, WEIGHT-	28 9 1
CAPACITY, VOLUME-	21 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 440

BRAKE -	AIR; VACUUM THRO' PIPE
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 1m
JOURNALS -	Ø 130

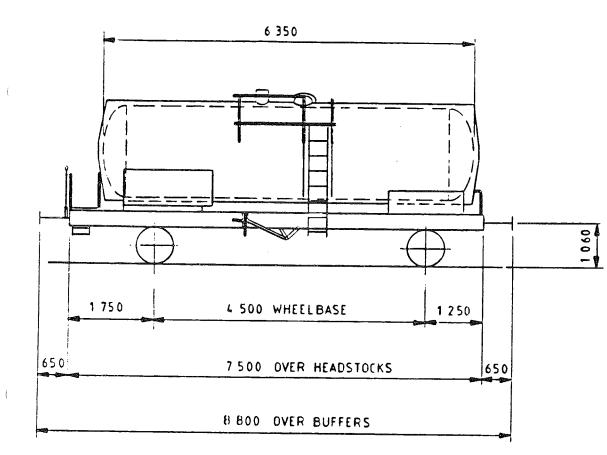
TYPE -	Zfs
WAGON No	23 87 7390 504
BUILDER -	ATELIERS DE JOIGNY
OWNER -	ERMEWA

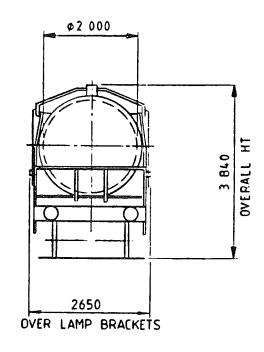
ISSUE 1

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401 GLW 2 AXLE TANK

1	A	B	C			an an train ann an Anna ann ann ann ann ann ann an			TOPS INFO	RMATION	an in the second se	n na sense and an		ana aya manaya ya Ma <u>tanakan kan</u> ga	
 1 19	91	231	27		_		AARKND	OPERATING	SPEED	BR	AKE FOF	RCE DATA	EXCESS	RA	DESIGN
				_			CARKND	50 mile/h UP TO mile/h-ABOVE	40 tonne GLW	51 FORCE 131 FORCE	UP TO ABOVE	161 G L W	LENGTH		





ICE 365

TARE -	131
CAPACITY, WEIGHT-	271
CAPACITY, VOLUME-	19·2 m ³
FLOOR AREA -	n - Million ann ann an Sainteachailte an Sainteachailte ann an Sainteachailte an Sainteachailte an Sainteachai
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	1204.01.559

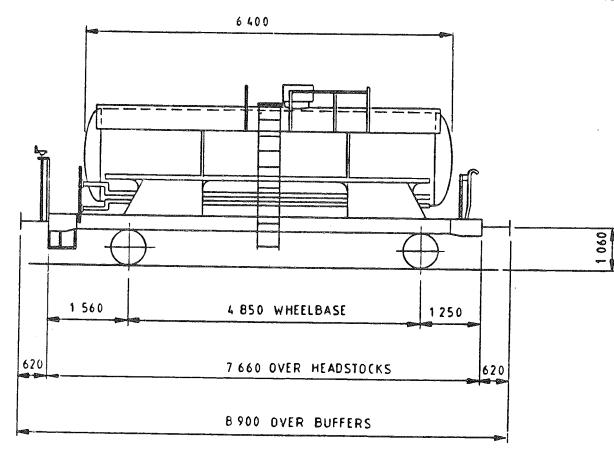
BRAKE -	AIR; VAC THRO PIPE
SUSPENSION	-SINGLE LINK; 9 PLATE
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER Ø370 HD
WHEELS -	Ø1000
JOURNALS -	Ø130

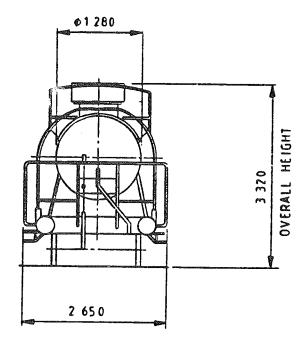
TYPE -	Zef
WAGON N	023 80 7197 029
BUILDER -	V.T.G.

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361 GLW 2 AXLE TANK

	Ţ	A	B	(<u>p</u>			g an fair a than a t	TOPS INFO	RMATION	an can di kan an a		an a	
-	-+		22.3	+				AARKND	OPERATING	SPEED	BRAKE FOR	ICE DATA	EXCESS	RA	DESIGN
	11	8.31	22.3	22	36			CARKND	60 mile/h UP TO	36 tonne GLW	61 FORCE UP TO	191 GLW		(GLW)	SHEET
			l				an a		mile/h-ABOVE	SO MILLE OF AL	151 FORCE ABOVE		4	5	





TARE -	13.71
CAPACITY, WEIGHT-	22.31
CAPACITY, VOLUME-	7.8 m ³
FLOOR AREA -	annya ayak 2019 minin mangana ngana ngana ngana ngangan kanang kanang kanang kanang kanang kanang kanang kanang
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 3 110264

BRAKE -	AIR & VAC THRO PIPE
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø 450 HD
WHEELS -	Ø 920
JOURNALS -	ø130

TYPE -	Zfgkks
WAGON N	D2385 7492 200 201 700
BUILDER -	JOSEPH MEYER
OWNER -	

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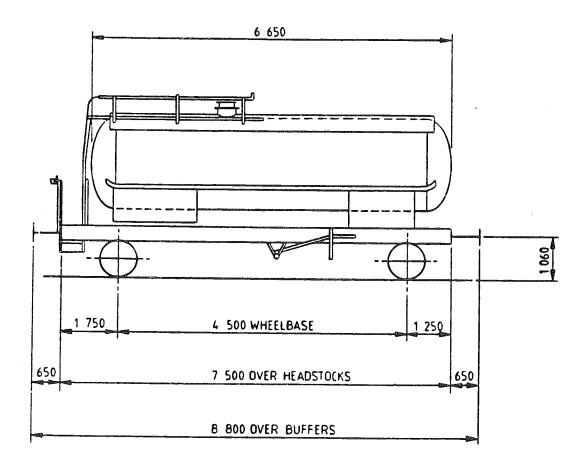
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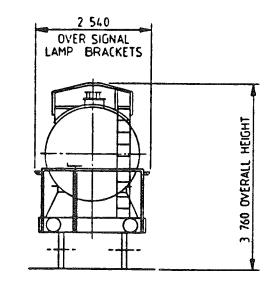
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ISSUE 1

321 GLW 2 AXLE TANK

			TOPS INFO	RMATION			anaratiki (pi <u>sona so</u>	
22.4122.4122.41	AARKND	OPERATING	SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
<u> </u>	CARKND	50 mile/h UP TO	32 tonne GLW	5t FORCE UP TO		LENGTH	(GLW)	
	IICBB	mile/h ABOVE	2% MILLE OFAA	101 FORCE ABOVE	211 GLW	4	4	





TARE -	9·6 t	
CAPACITY, WEIGHT-	22.4 t	
CAPACITY, VOLUME-	14 m ³	
FLOOR AREA -	and a second of the second control of the second	
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No	2309.01.531	-

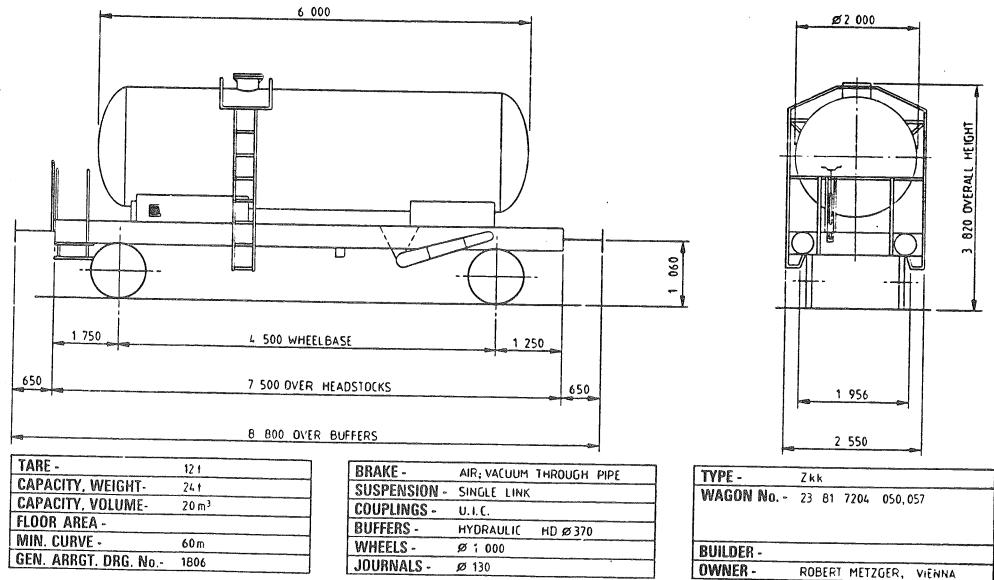
BRAKE -	AIR; VACUUM	THROUGH	PIPE
SUSPENSION -	SINGLE LINK	and the second	Commign and the termination of
COUPLINGS -	U.I.C.		
BUFFERS -	RINGFEDER	Ø 370 HD	- 640
WHEELS -	Ø1000		and of the construction of the second se
JOURNALS -	ø 130		

ТҮРЕ -	Zcfkk
WAGON No	23 80 7287 006
BUILDER -	V.T.G.

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361 GLW 2 AXLE TANK

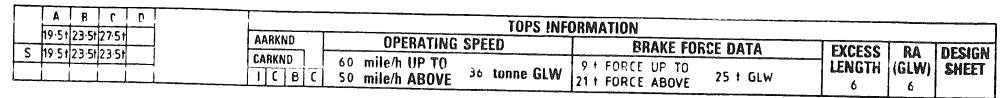
P	 												
	A	B	C	D			۵٬۰۰۹ - ۵٬۰۰۹ - ۱٬۰۰۹ - ۱٬۰۰۹ - ۱٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ - ۲٬۰۰۹ -	TOPS INFO	DMATION	lainellys analytigenes de any simulation if a community down an agripping menor manarabel picture	and the part of the property of the second	and a state of the second s	
-	 20 t	24 1	24 1		AARK	ND	OPERATING		And and an	DRCE DATA	EXCESS	RA	DESIGN
F	 		1	 	CARKI	ND	50 mile/h UP TO	36 tonne GLW	91 FORCE UP TO		LENGTH		SHEET
å		<u> </u>	4	<u> </u>			-mile/k-ABOVE		171 FORCE ABOVE	ELL OLM	4	5	

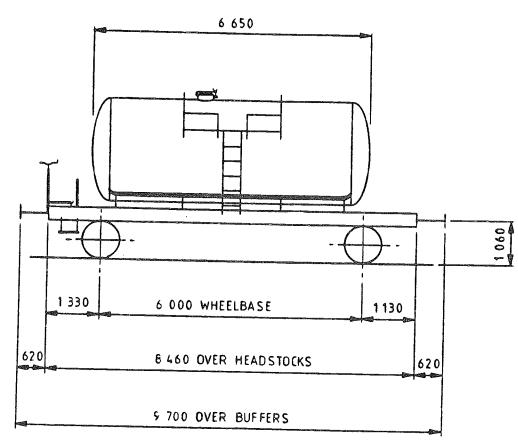


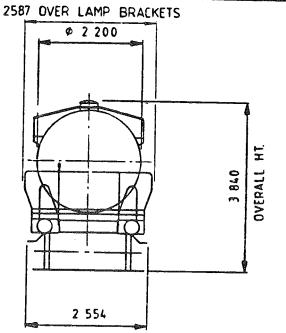
ISSUE 1

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40 t GLW 2 AXLE TANK







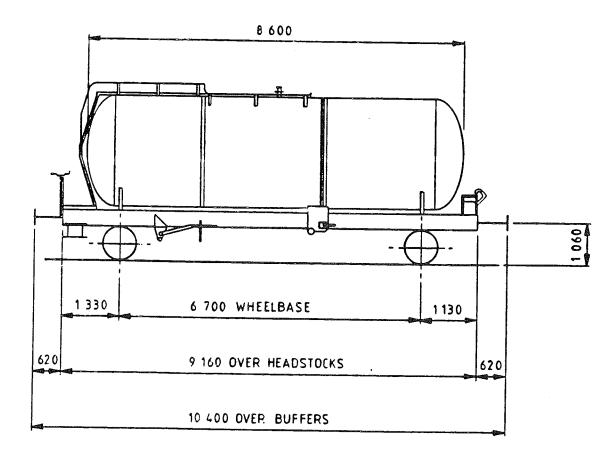
TARE -	12.51
CAPACITY, WEIGHT-	27·5 t
CAPACITY, VOLUME-	24.4 m ³
FLOOR AREA -	an a
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	410 - 1

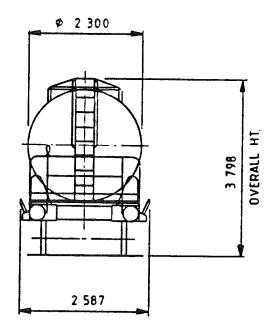
BRAKE -	AIR; VAC. THRO'PIPE
SUSPENSION -	SINGLE LINK: 9 PLATE
COUPLINGS -	U I.C.
BUFFERS -	RINGFEDER, HD Ø 370
WHEELS -	¢ 920
JOURNALS -	Ø 130

TYPE -	Zcefs
WAGON No	23 80 7398 400
BUILDER -	DB MINDEN

40 + GLW 2 AXLE TANK

Γ	A	B	C	D			TOPS INFORMATION									
┝			27.4			AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN					
┢	 	23.7	1		4	CARKND	60 mile/h UP TO -mile/h-ABOVE 40 tonne GLW	10 + FORCE UP TO 21 + FORCE ABOVE 27 + GLW	LENGTH	(GLW)	SHEET					
L.,	 		1	1			THICH POUVE	21 I FORCE ABOVE 27 T ULW	7	6						





TARE -	12,520 t
CAPACITY, WEIGHT-	27.4 1
CAPACITY, VOLUME-	34 m ³
FLOOR AREA -	an manangan ng kanang panganan na sa na
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- K 360.01.00

BRAKE -	AIR ; VAC THRO' PIPE
SUSPENSION -	SINGLE LINK : 9 PLATE
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER
WHEELS -	Ø \$20
JOURNALS -	¢ 130

TYPE -	Zcfs					
WAGON No	23 80 7391 026 - 034					
Patitu in mos						
BUILDER -	GRAAFF ELZE					

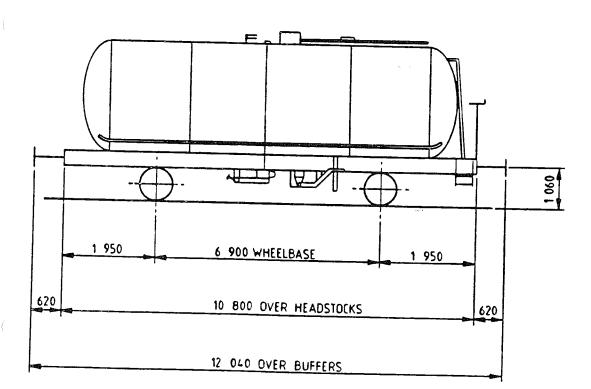
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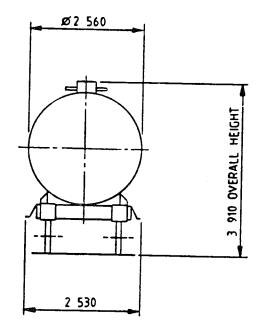
401 GLW 2 AXLE TANK

ICE 373

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	-	A	B 23-41	C										
Ľ			23.41	-			CARKND	OPERATING	SPEED	BRAKE FC	DRCE DATA	EXCESS	RA	DESIGN
					1	, 	ICBC	60 mile/h UP TO 50 mile/h ABOVE	36 tonne GLW	81 FORCE UP TO 171 FORCE ABOVE	21t GLW	LENGTH 9	(GLW) 6	SHEET





TARE -	12-6 t	
CAPACITY, WEIGHT-	27·4†	
CAPACITY, VOLUME-	38 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No	C.1553.1	

SUSPENSION - DOUBLE LINK COUPLINGS - U.I.C. BUFFERS - HYDRAULIC WHEELS - Ø 1 000	BRAKE -	AIR & VACUUM THROUGH PIPE
BUFFERS - HYDRAULIC WHEELS - Ø 1 000	SUSPENSION -	
WHEELS - Ø 1 000	COUPLINGS -	U. I. C.
	BUFFERS -	HYDRAULIC
JOURNALS - Ø 130	WHEELS -	Ø 1 000
	JOURNALS -	ø 130

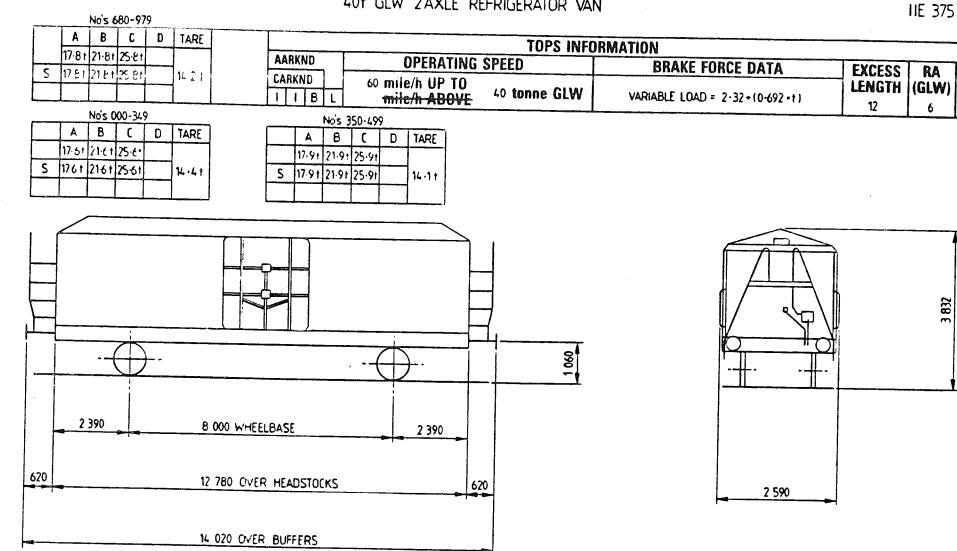
TYPE -	Zcfs					
WAGON No	23 87 7391 001-004					
BUILDER -	LORMAFER					
OWNER -	ALGECO					

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ISSUE 1

40t GLW 2AXLE REFRIGERATOR VAN



TARE -	SEE ABOVE
CAPACITY, WEIGHT-	SEE ABOVE
CAPACITY, VOLUME-	44 m ³
FLOOR AREA -	23.6m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	2138

BRAKE - AIR & VACUUM THRO. PIPE; SIDE LEVER								
SUSPENSION -	DOUBLE LINK							
COUPLINGS -	U.I.C.							
BUFFERS -	HYDRAULIC							
WHEELS -	Ø 920							
JOURNALS -	Ø130							

TYPE -	Ibefhs	
WAGON N	D 03 83 8089 000-499	
	03 83 8089 680-979	
BUILDER -	SNIA VISCOSA	_
OWNER -	INTERFRIGO	\dashv

DESIGN

SHEET

RA

6

3 832 OVERALL HEIGHT

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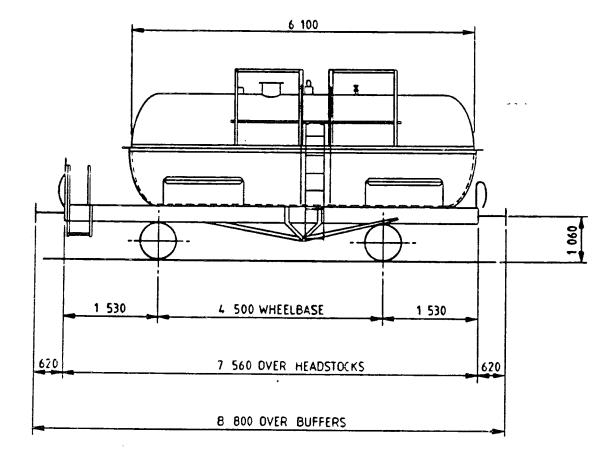
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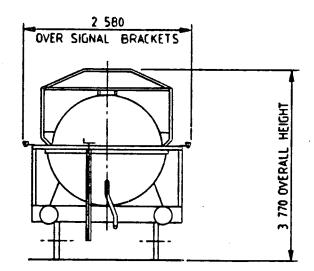
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361 GLW 2 AXLE TANK

	A		8	C	D								
	18.	<u>61</u>	22·6t	22.6†		AARKND	AARKND OPERATING		BRAKE FORCE DATA		EXCESS	RA	DESIGN
						CARKND	50 mile/h UP TO mile/h ABOVE	36 tonne GLW	91 FORCE UP TO 171 FORCE ABOVE	21t GLW	LENGTH 4		SHEET





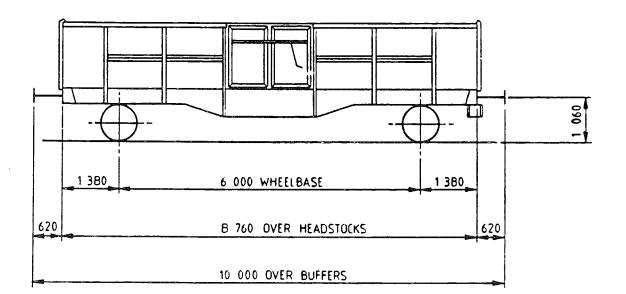
TARE -	13-4 t	
CAPACITY, WEIGHT-	22·6†	
CAPACITY, VOLUME-	13-5 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No	01.578	

BRAKE -	AIR; VACUUM THROUGH PIPE
SUSPENSION -	SINGLE LINK
COUPLINGS -	U. I. C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 920
JOURNALS -	ø 130

TYPE -	Zcetkk
WAGON No	23 80 7187 000
BUILDER -	LINKE-HOFMANN-BUSCH
OWNER -	V. T. G.

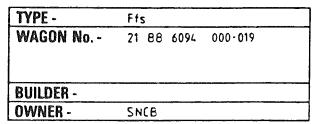
401 GLW OPEN HIGH SIDED WAGON

		A	I	8	C	D	TOPS INFORMATION							
	1	19.5	123	·5t	27.51		AARKND	OPERATING	SPEED	BRAKE FO	DRCE DATA	EXCESS	RA	DESIGN
	5 1	19.5	1 23	·51	27.51		CARKND	60 mile/h UP TO	40 tonne GLW	71 FORCE UP TO	204 6154	LENGTH	(GLW)	SHEET
Ĺ							 IOBB	mile/h ABOVE	TO TOULLE GEAA	181 FORCE ABOVE	201 GLW	6	6	

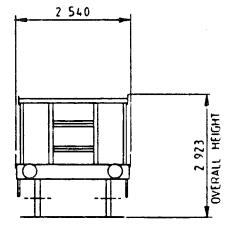


TARE -	12 t
CAPACITY, WEIGHT-	27.51
CAPACITY, VOLUME-	34.4 m ³
FLOOR AREA -	23 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	875-0-002M

BRAKE -	AIR & VACUUM THROUGH BRAKE
SUSPENSION -	8 PLATES - 120 - 16
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	ø 1 000
JOURNALS -	ø 130

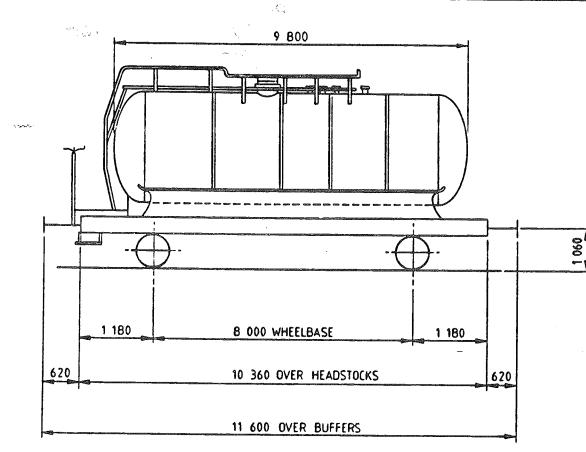


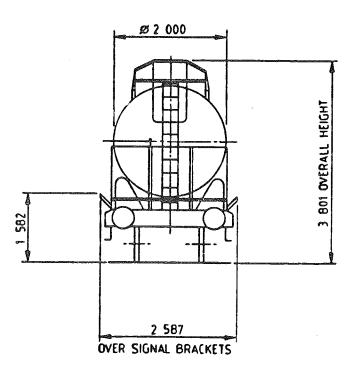
ISSUE 1



401 GLW 2 AXLE TANK

	A	B	C	D		TOPS INFORMATION					and and a second se	
	****************	22 +			AARKND	OPERATING	SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
S	181	22 +	22 †		CARKND	60 mile/h UP TO	36 tonne GLW	101 FORCE UP TO	Эль Сала Саналана Сан	LENGTH		
				manner	ICAB	50 mile/h ABOVE	20 IOUUG OTAA	211 FORCE ABOVE	261 ULW	9	6	





TARE -	14 t
CAPACITY, WEIGHT-	26 t
CAPACITY, VOLUME-	30 m ³
FLOOR AREA -	an a
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	К 383 01 00

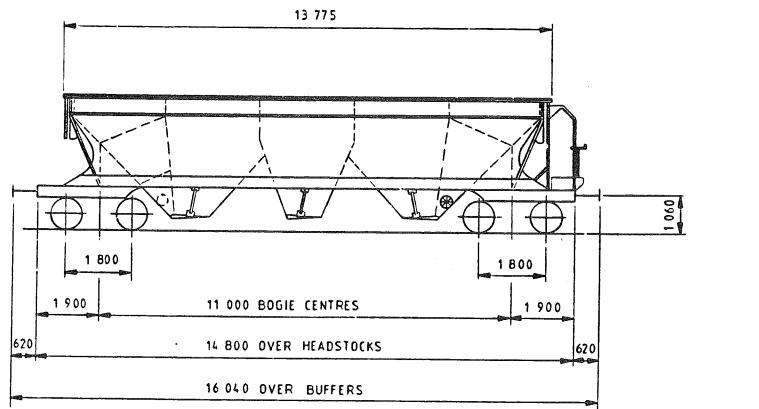
BRAKE - AIR;	PLATFORM AND SIDE LEVER
	SINGLE LINK 9 = 1 400 SPRINGS
COUPLINGS -	INTERNATIONAL SCREW
BUFFERS -	RINGFEDER
WHEELS -	Ø 940
JOURNALS -	ø 130

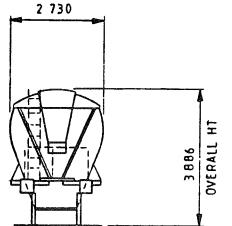
TYPE -	Zcfs	٦
WAGON No	23 80 7391 046	
BUILDER -	GRAAF ELZE	-
OWNER.	V.T.G. HAMBURG	-

ICE 378

801 GLW BOGIE HOPPER

	A	A	B	0	D		TOPS INFORMATION								
90			48.61				AARKND	OPERATING	SPEED	BRAK	E FORCI	E DATA	EXCESS	RA	DESIGN
<u> </u>	μņ	∿é†!!	48.61	56-6	! ╂───	-	CARKND	60 mile/h UP TO	80 tonne GLW	141 FORCE UP	P 10	40t GLW			
L							IPBH	mile/h-ABOVE	ON MULLE OF AA	361 FORCE A	BOVE	AVI ULW	6	6	





TARE -	23 350
CAPACITY, WEIGHT-	56.61
CAPACITY, VOLUME-	70 m ³
FLOOR AREA -	Dia contra serie que ve se contra da famama a ga Tare a mana da gara y esta Cargo a este de anter y manera a g
MIN. CURVE -	60 m ·
GEN. ARRGT. DRG. No.	105604

BRAKE -	AIR & VACUUM THRO PIPE
SUSPENSION	-Y25 Csi BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC US 450 x 34 0 HD
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Tafoos
WAGON	No 33 87 5699 001
BUILDER	- FAUVET- GIREL
OWNER -	COMPAGNIE AUXILIIAIRE DUNORD

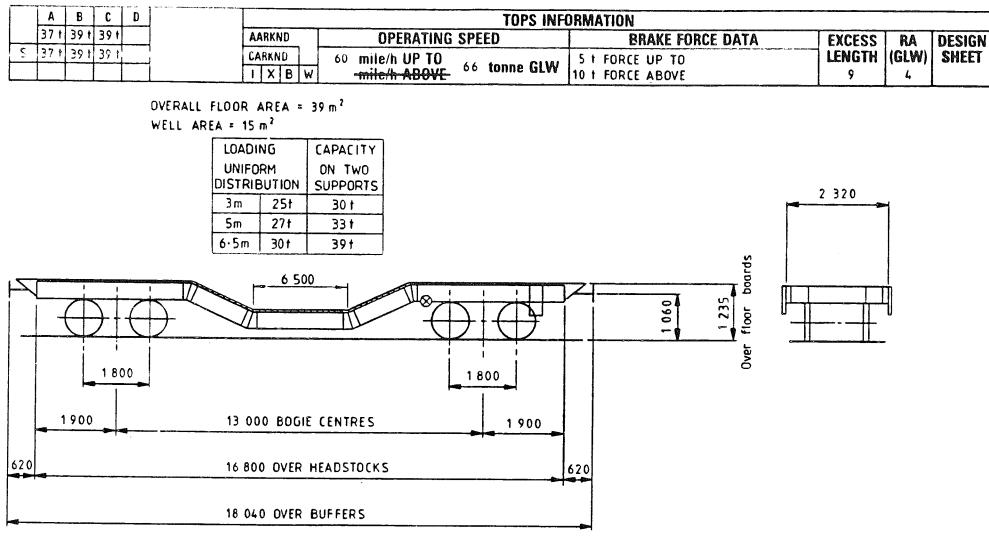
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66 † GLW WELL WAGON



TARE -	27 tonnes
CAPACITY, WEIGHT-	39 t
CAPACITY, VOLUME-	
FLOOR AREA -	SEE ABOVE
MIN. CURVE -	R ≥ 30,17 m
GEN. ARRGT. DRG. No	- 28501

BRAKE -	AIR, VACUUM THRO' PIPE
SUSPENSION	Y 27E BOGIE
COUPLINGS -	INTERNATIONAL SCREW.
BUFFERS -	HYDRAULIC type U5H
WHEELS -	ø 920
JOURNALS -	¢ 130

TYPE -	Uafiks
WAGON	No. - 31 87 9899 000 · 004
BUILDER	
OWNER -	SNCF

IXE 393

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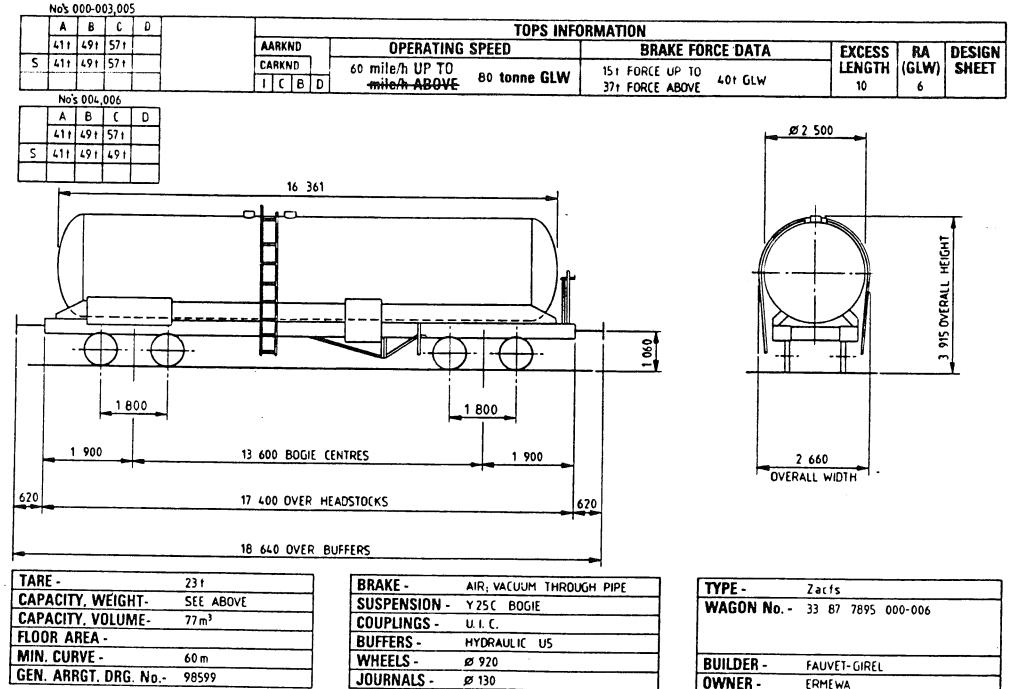
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801 GLW BOGIE TANK

ICE 394



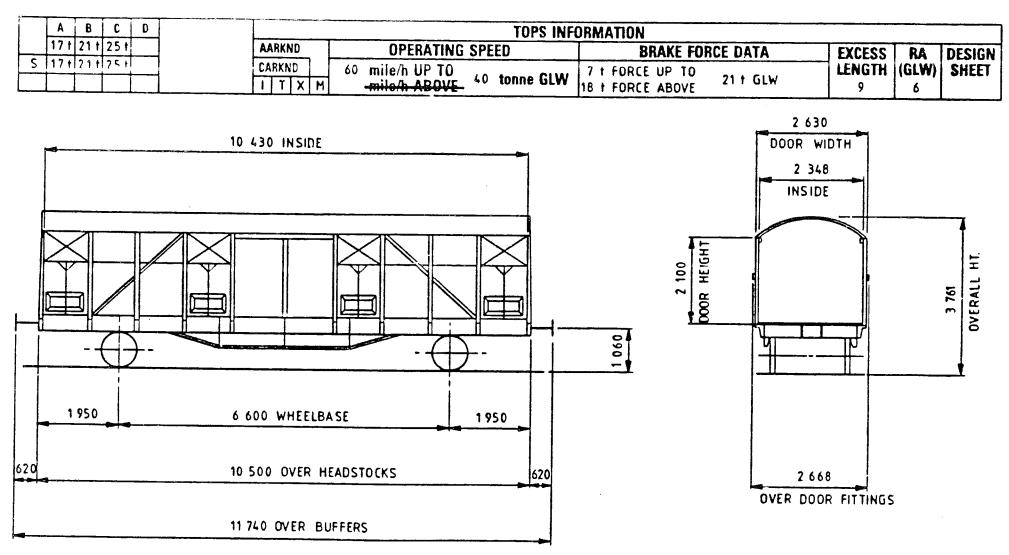
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40 t GLW 2 AXLE VAN



TARE -	15 t
CAPACITY, WEIGHT-	25 t
CAPACITY, VOLUME-	50 m ³
FLOOR AREA -	24·5 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- W1-0156 & W1-0157

BRAKE -	DUAL	٦.
SUSPENSION -	DOUBLE LINK	1
COUPLINGS -	U.I.C.	1
BUFFERS -	HYDRAULIC 460 x 370 HD	1
WHEELS -	¢ 1000	1
JOURNALS -	¢ 130	

TYPE -	Hfhs
WAGON No	24 71 2148 993 - 999
	24 71 2149 000 - 055
BUILDER -	SEMAT, CARPETA
OWNER -	TRANSFESA

ISSUE 1

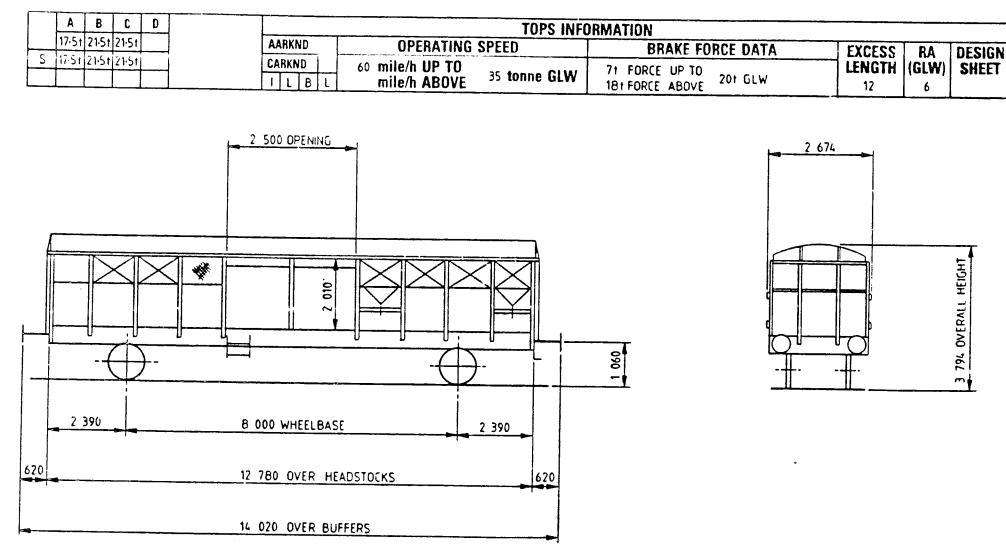
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ITE 407

401 GLW 2 AXLE VAN



TARE -	14 t
CAPACITY, WEIGHT-	21-51
CAPACITY, VOLUME-	69 m ³
FLOOR AREA -	28 [,] 7 m ²
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	304379

AIR; VACUUM THROUGH PIPE
DOUBLE LINK
U.I.C.
HYDRAULIC
Ø 1 000
ø 130

TYPE -	Hbfkks	٦
WAGON No	21 72 2390 000-064	
BUILDER -	FRANCO BELGE	\neg
OWNER -	JZ	7

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ISSUE 1

401 GLW REFRIGERATOR VAN

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	401 ULW REFRIG	ERAIOR VAN				115 /10	0
No's 741-750						IIE 41	D
ABCD		TOPS INFO	RMATION				
18-51 22-51 26-51	AARKND OPERATING	G SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
S 18-5t 22-5t 22-5t	CARKND 45 mile/h UP TO	40 tonne GLW	14 FORCE UP TO 24 FORCE ABOVE	27† GLW	LENGTH	(GLW) 6	SHEET
No's 700-740					1	<u>`</u>	L
A B C D 191 231 271							
S 19t 23t 23t				2 574			
						-	
						EGH	
						B32 OVERALL HEIGHT	
		 - 				RAL	
			<u>-</u>			Š	
- (+)-		۲	090	To	Í.	832	
	\sim				<u> </u>	~	<u>_</u>
2 390	8 000 WHEELBASE	2 390					
620				NOTE:- No's 06 83 8083 70	0.7/3		
	12 780 OVER HEADSTOCKS	620		HAVE NO END LADDER	~~~~ ?S		
	,						
	14 020 OVER BUFFERS						

TARE -	13-3+
CAPACITY, WEIGHT-	SEE ABC PANELS
CAPACITY, VOLUME-	51m ³
FLOOR AREA -	26.5m ²
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	56

BRAKE -	DUAL	
SUSPENSION -	DOUBLE LINK	
COUPLINGS -	U.I.(.	
BUFFERS -		
WHEELS -	PIO PROFILES	
JOURNALS -		

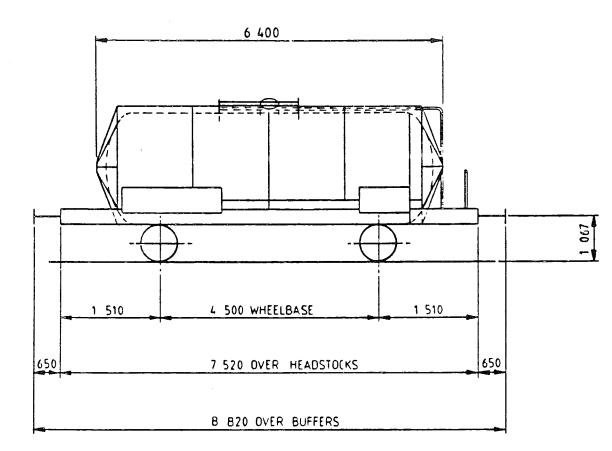
TYPE -	Ibfggps
WAGON No	06 83 8083 700-750
BUILDER -	SNIA VISCOSA
OWNER -	TRANSFESA

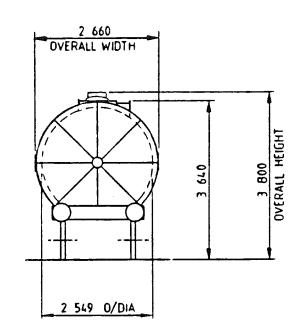
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401 GLW TANK WAGON

	T	A	B	C	D		TOPS INFORMATION				
		20+	24 1	281		AARKND	OPERATING SPEED	BRAKE FORCE DATA		DESIGN	
2		36+	26 :	2~	l i	CARKND	60 mile/h UP TO 36 tonne GLW	BT FORCE UP TO 32 T GLW	LENGTH (GLW)	SHEET	
						ICBB	50 mile/h ABOVE 50 tolme GLW	261 FORCE ABOVE	4 6		





TARE -	12 t
CAPACITY, WEIGHT-	28 t
CAPACITY, VOLUME-	30m ³
FLOOR AREA -	a n
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	W 72

BRAKE -	AIR & VACUUM THROUGH PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC HD Ø 380
WHEELS -	ø 1 000
JOURNALS -	ø 130

TYPE -	Zefkks
WAGON No	23 88 7499 001, 004, 005, 007, 008.009, 010
BUILDER -	S.A.T.I. ANTWERP
OWNER -	CIE AUXILIARE I.B.
	100115

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ICE. 425

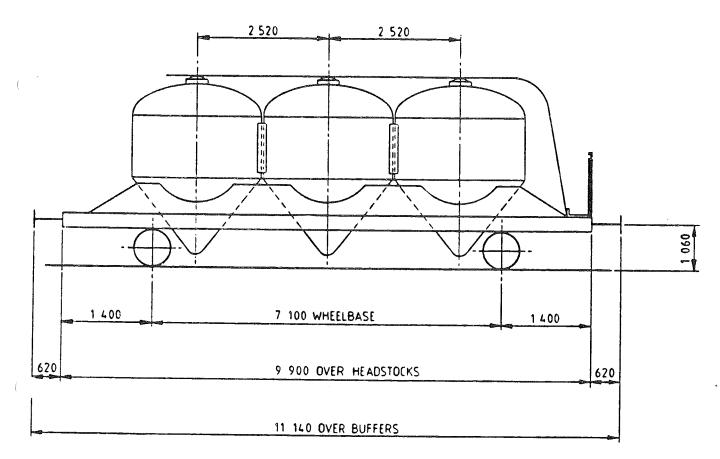
401 GLW SILO WAGON

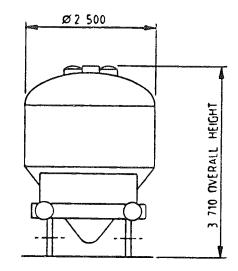
IPE 426

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		A	B	C	D		۲۹۵۵۵ (۲۹۵۵) ۲۹۵۵ (۲۹۵۵) ۲۹۵۵ (۲۹۵۵) ۲۹۵۵) ۲۹۵۵ (۲۹۵۵) ۲۹۹۵ (۲۹۹۵) ۲۹۹۵ (۲۹۹۵) ۲۹۵۵ (۲۹۵۵) ۲۹۵۵ (۲۹۵۵) ۲۹۹۵ (۲۹۵۵) ۲۹۹۵ (۲۹۵۵) ۲۹۹۵ (۲۹۹۵) ۲۹۹۵ (۲۹۹۵) ۲۹۹۵ (۲۹۹۵) ۲۹۹۵ (۲۹۹۵) ۲۹۹۵ (۲۹۹۵) ۲۹۹۵ (۲۹۹۵)	TOPS INFO	RMATION	ĸĸĸĸĸġĸġŎĊĊŎĊĸŔŦŦŶĊĸĊĸĸĸĸĸĸĸijĊĸĸĸĸĸġĸĊĸĸţĸĊġŎĸĸĸĊĊĸĸŦĸĸĸţŔġġĸĸġĊĸĸĸŶĸġġĸĹĬĬĿĸĸſĬĸĸĸĬĸĸĸĸĸĸĸ	<u></u>		
┝				25.2		AARKND	OPERATING	SPEED	BRAKE F	ORCE DATA	EXCESS	RA	DESIGN
-	5	1.21	21.21	25.21	·	CARKND	60 mile/h UP TO	36 tonne GLW	71 FORCE UP TO		LENGTH	(GLW)	SHEET
				<u> </u>	l	IPB	50 mile/h ABOVE	So tourie OLAA	18t FORCE ABOVE	231 GLW	8	6	





TARE -	14-8 t
CAPACITY, WEIGHT-	25.2 †
CAPACITY, VOLUME-	33 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	100824

BRAKE -	AIR & VACUUM THROUGH PIPE
SUSPENSION	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	TYPE U
WHEELS -	Ø 1 000
JOURNALS -	ø 130

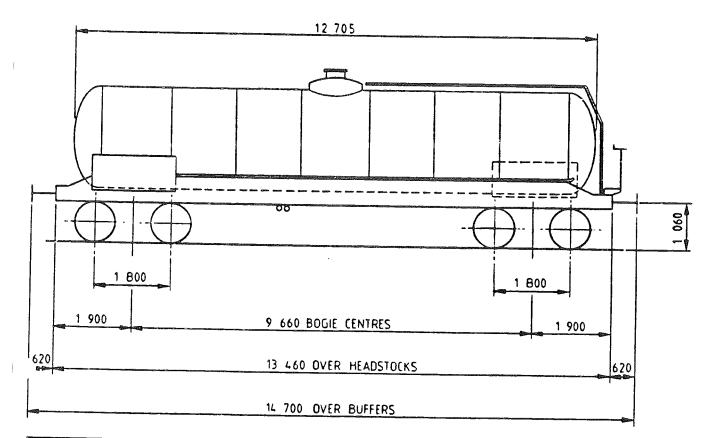
TYPE -	Ucfs		i a Mala (hai ya na ma Mara da i ma a ama	
WAGON No	23 87 9192 000			Eritary.
DIMUDED			275 - 487 y Successive Summer Sum	
BUILDER -	FAUVET-GIREL			
OWNER -	SOTRANPA-WILLYNCK			
	ISSUE	1		

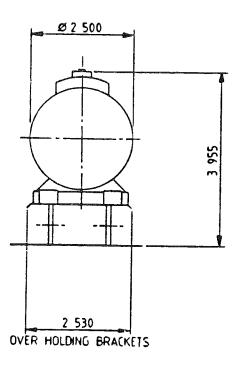
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

801 GLW BOGIE TANK

ICE 428

	Contraction of the second s	RMATION			7
	OPERATING SPEED	BRAKE FORCE DATA	EXCESS		DESIGN
CANNED 60 MILE	le/h UP TO le/h ABOVE 80 tonne GLW	12 + FORCE UP TO 36+ FORCE ABOVE 40+ GLW	LENGTH	(GLW)	SHEET



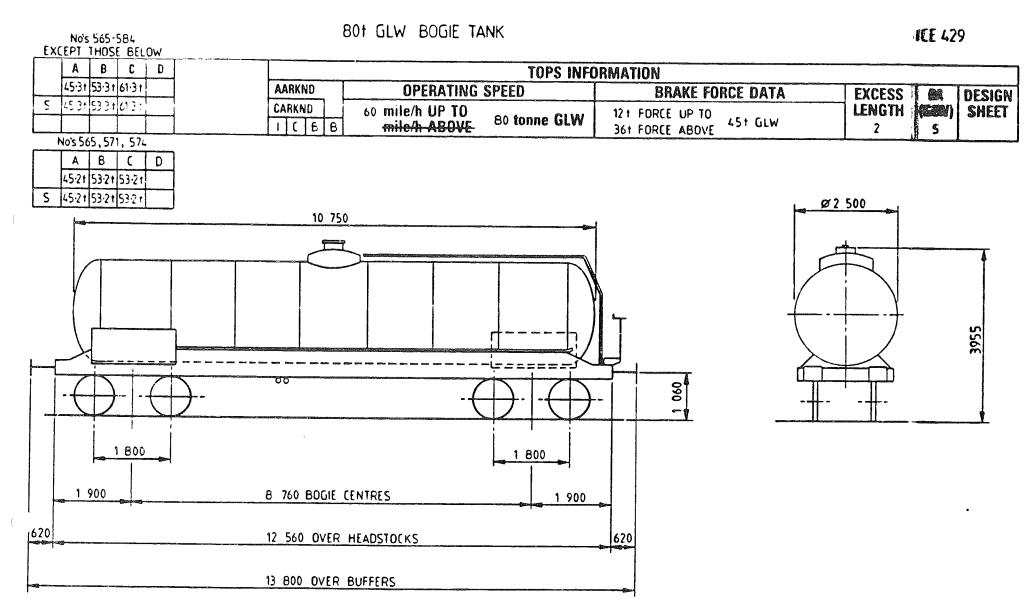


TARE -	19.51
CAPACITY, WEIGHT-	60.51
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	ne zakon zakon na zakon na kana przez tekno z konstru na na na na polekow zakon z konstru poleka na poleka kana
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	107467

BRAKE -	AIR: VACUUM THROUGH PIPE
SUSPENSION -	Y 25 CS2 BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	US HYDRAULIC 450 × 340 HD
WHEELS -	ø 920
JOURNALS -	ø 130

TYPE -	Zats
WAGON No	33 87 7890 555-564
RUII DER -	FAUVET-GIRFI
OVILULII -	
naalaru -	ERMEFER, GENEVA

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)



TARE -	18·7t
CAPACITY, WEIGHT-	61·3t
CAPACITY, VOLUME-	50.6 m ³
FLOOR AREA -	an an ann an
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	107398

BRAKE -	AIR: VACUUM THROUGH PIPE
SUSPENSION -	Y 25 CS2 BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	US HYDRAULIC 450 = 340 HD
WHEELS -	Ø 920
JOURNALS -	ø 130

TYPE -	Zafs
WAGON No	33 87 7890 565558
	SEE 'ABC' PANELS
BUILDER -	FAUVET - GIREL
OWNER -	ERMEWA

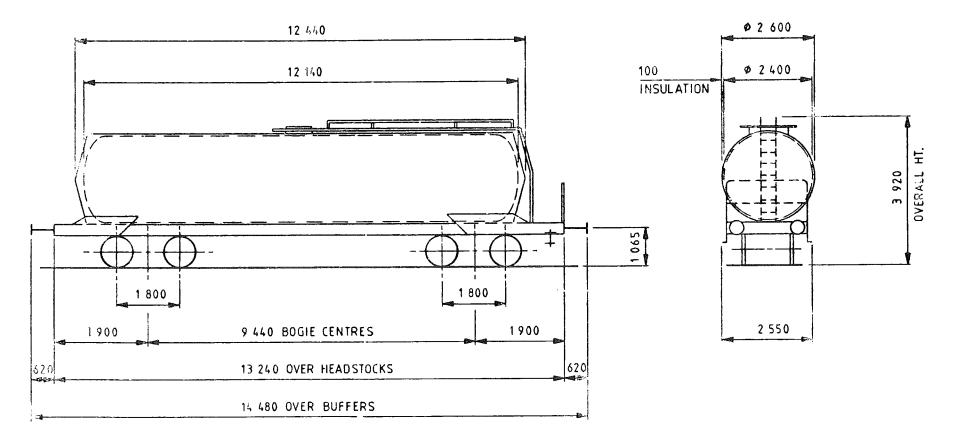
Original © BRB Residuary Ltd

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

ISSUE 1

80 + GLW BOGIE TANK

Γ	A	B	C	D		TOPS INFORMATION				
9	44 +		601		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	 44 t	1	60 t		CARKND	60 mile/h UP TO 72 tonne GLW	13 + FORCE UP TO 40 + GLW	LENGTH	(GLW)	SHEET
					ICBD	50 mile/h ABOVE /2 totille glav	36 + FORCE ABOVE	5	<u> </u>	



TARE -	20 t	
CAPACITY, WEIGHT-	60 t	
CAPACITY, VOLUME-	52 m ³	
FLOOR AREA -		
MIN. CURVE -	30 m	
GEN. ARRGT. DRG. No.	- 10242	

BRAKE -	AIR; VAC	THROUGH PIPE	
SUSPENSION	•		
COUPLINGS -	U.I.C.		
BUFFERS -	U5,450	x 340 HD	
WHEELS -	Ø 920		
JOURNALS -	ø 130		

TYPE -	Zafs
WAGON No.	- 33 87 7890 613, 614, 615, 616
	CEME
	C.E.M.E
BUILDER - OWNER -	C.F.M.F. TRANSCITERNE, GENEVA

ICE 432

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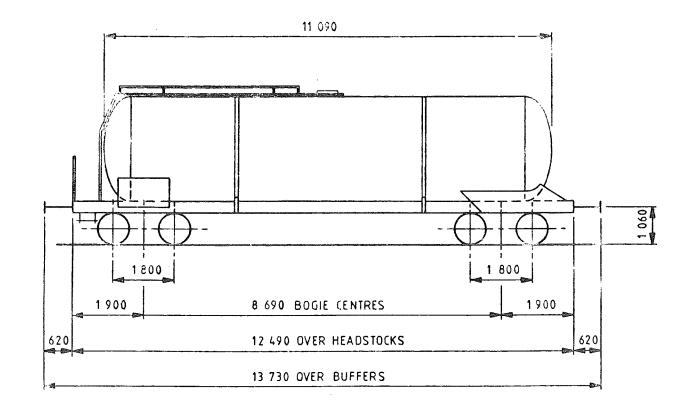
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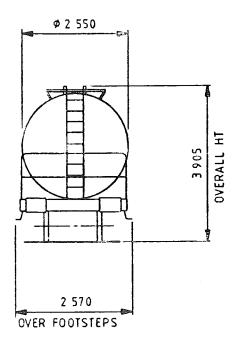
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80 t GLW BOGIE TANK

		4	B ₁	В	2	C		TOPS INFORMATION							
	46	51	51-21	54	516	2·5 t	AARKND		OPERATING	SPEED	BRAKE FOR	ICE DATA	EXCESS	RA	Design
S	46	St	51·2 t	5 4	Stø	2.5 t	CARKND		60 mile/h UP TO	PA tonno CIVA	11 + FORCE UP TO	38 t GLW	LENGTH	(GL₩}	SHEET
		Τ			Τ		ICE	D	-miloAh-ABOVE-	80 tonne GLW	35 1 FORCE ABOVE	JO I ULW	2	6	





ICE 440

TARE -	17·5 t
CAPACITY, WEIGHT-	62·5 t
CAPACITY, VOLUME-	54·5 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	-1.5.0.660

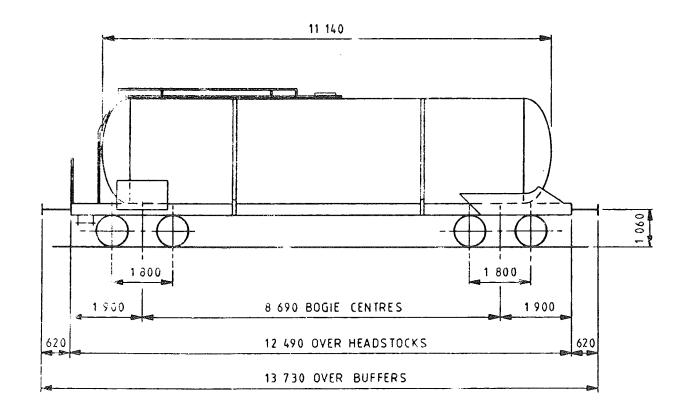
BRAKE -	AIR; VAC THROUGH PIPE
SUSPENSION	- Y 25 (S2
COUPLINGS -	U. I. C.
BUFFERS -	U5; 450 x 340 HD
WHEELS -	Ø 920
JOURNA'S -	Ø 130

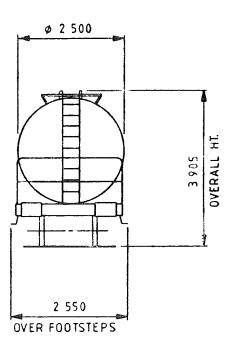
TYPE -	Uaths
WAGON No.	- 33 87 7890 599 - 610
	C. E.M. E
BUILDER -	L, F, FI, F,
OWNER -	FERT & Co

TANK

80 t GLW BOGIE TANK

$\begin{bmatrix} A & B_1 & B_2 & C \end{bmatrix}$	TOPS INFORMATION						
45·31 50 t 53·3161·3 t	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN	
S 45.31 Sut 53.3161.31	CARKND	60 mile/h UP TO	11 + FORCE UP TO 38 + GLW	LENGTH	(GLW)	SHEET	
	ΙζΒζ	mile/h ABOVE 80 tonne GLW	35 + FORCE ABOVE SOT OLW	2	6		





TARE -	18·7 t
CAPACITY, WEIGHT-	61·3 t
CAPACITY, VOLUME-	52·2 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	-1-4-0648

BRAKE -	AIR; VACUUM THROUGH PIPE
SUSPENSION	- Y 25 CS2 BOGIE
COUPLINGS -	UIC.
BUFFERS -	US; 450 x 340 HD.
WHEELS -	ø 920
JOURNALS -	Ø 130

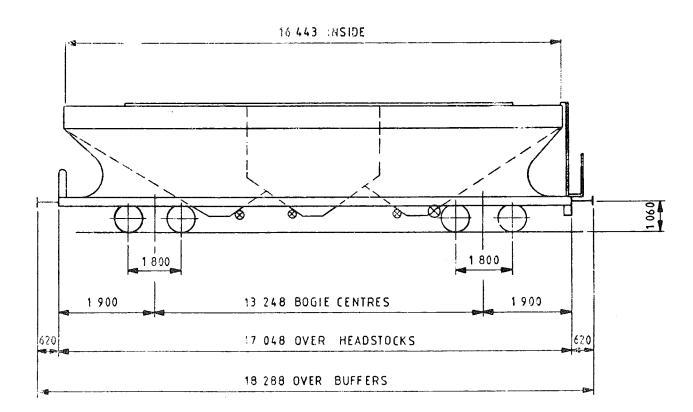
TYPE -	Uafhs
WAGON No.	- 33 87 7890 611,612
DIMATA	
BUILDER -	C.E.M.E
DOILDEN	
OWNER -	FERT& Co.

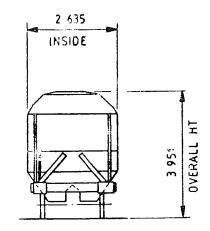
ICE 441

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801 GLW BOGIE HOPPER

	Т	A	B	C	D		TOPS INFORMATION							
		43†	51†	591		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS R	DESIGN				
S	+	43†	51†	591	 	CARKND	60 mile/h UP TO mile/h ABOVE 80 tonne GLW	141 FORCE UP TO 401 GLW	LENGTH (GL) 9 6	N) SHEET				





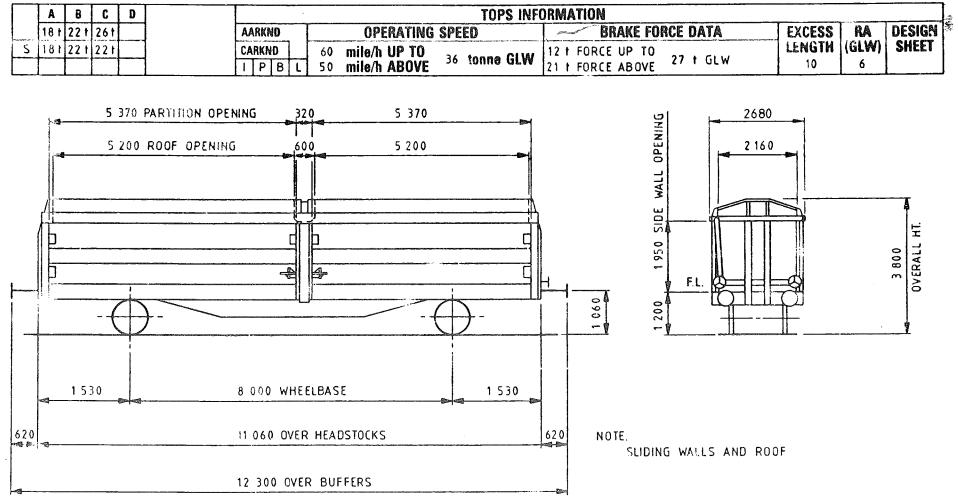
IPE 442

TARE -	211
CAPACITY, WEIGHT-	591
CAPACITY, VOLUME-	95m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	-10 7280

BRAKE -	AIR: VACUUM THROUGH PIPE
SUSPENSION	-Y25C BOGIE
COUPLINGS -	U.I.C.
BUFFERS	U5 105 STROKE 440+350 HD
WHEELS -	Ø920
JOURNALS -	ø130

TYPE -	Uafs
MAGON No.	- 100-110
	33 88 9380 010-053 (not incl
BUILDER -	FAUVET-GIREL
OWNER -	S.N.Y. KREVINO, CITA SA.
	100116 +

40 + GLW 2 AXLE COVERED WAGON



TARE -	14 1
CAPACITY, WEIGHT-	261
CAPACITY, VOLUME-	48.4 - ?
FLOOR AREA -	24-2-2
MIN. CURVE -	60 m
GEN. ARRGT. DKG. No.	- 8AZ 125 0031

BRAKE -	AIR; VACUUM THROUGH PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.1.C.
BUFFERS -	RING FEDER Ø 440
WHEELS -	Ø 92 0
JOURNALS -	Ø 130

TYPE -	Tfikks	
WAGON I	Vo 23 80 5798 000 - 0	02
BUILDER -	WAGGON UNION	
BUILDER -	WAGGON UNION	

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IPE 443

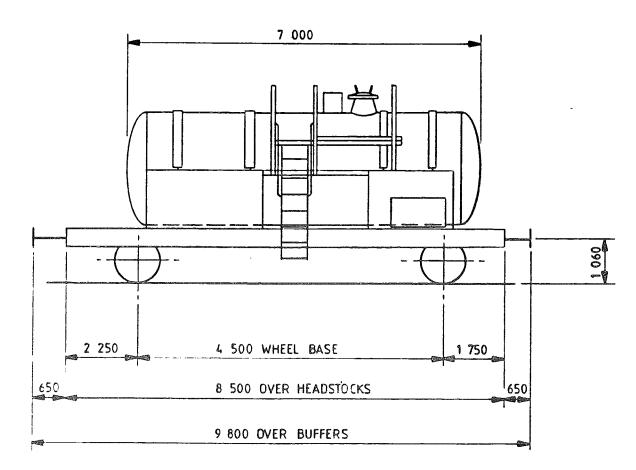
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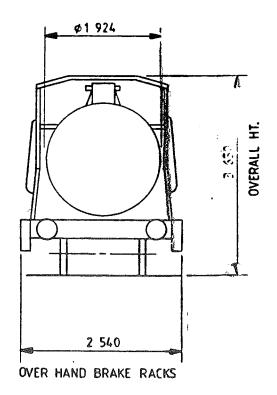
401. GLW. 2 AXLE TANK

	444
ICE	

	Ĺ	Α	B			D		TOPS INFORMATION								
	2	0·5t	24.5	<u>t 28</u>	51		AARKND	AABKND OPERATING SPEED BRAKE						EXCESS	RA	DESIGN
5	2	0.51	24-5	1 24	51			60 50	mile/h UP TO mile/h ABOVE	40	tonne GLW	5t. FORCE UP TO 18t. FORCE ABOVE	23t. GLW	LENGTH	(GLW) 6	SHEET

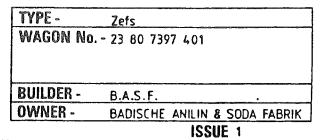
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TARE -	111
CAPACITY, WEIGHT-	28·5†
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	~
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	BJ.1053

BRAKE -	AIR & VAC THRO' PIPE
SUSPENSION	-SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø 370 HD
WHEELS -	ø1m
JOURNALS -	ø130

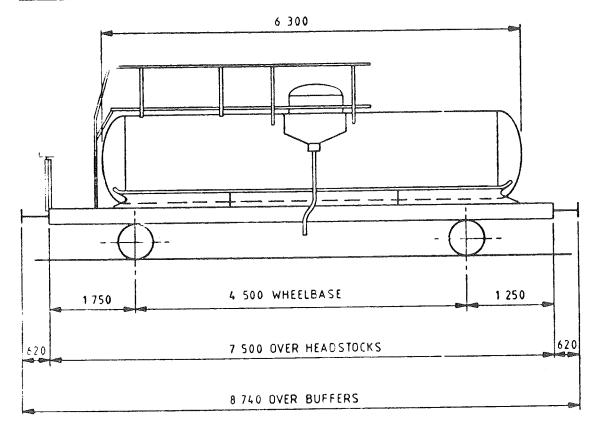


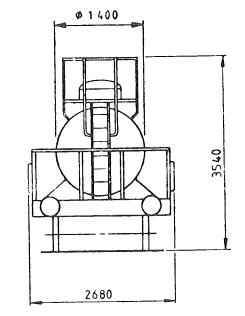
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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

40 + GLW TANK WAGON

Г		A	R	C	n		TOPS INFORMATION				<i>a</i>
	ł	171	211	251		AARKN	OPERATING SPEED BRAKE FORCE DATA	EXCESS	RA	DESIGN	in the second se
	5	171	211	251		CARKNE	1 OV mile/h UP IV to some cive in roke or to 26 t GIW	LENGTH	(GLAA)	SAICEI	
							B milem ABOVE 40 LONNE GLAS 21 1 FORCE ABOVE	producting of the second s	فتستعمر سيتمم		





TARE -	15 ł
CAPACITY, WEIGHT-	25 1
CAPACITY, VOLUME-	8·7 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	,- W 1878

BRAKE -	AIR, VACUUM THROUGH PIPE
SUSPENSION ·	DOUBLE LINK
COUPLINGS -	U. I. C.
BUFFERS -	RING FEDER Ø 370 HD
WHEELS -	Ø 940
JOURNALS -	Ø 130

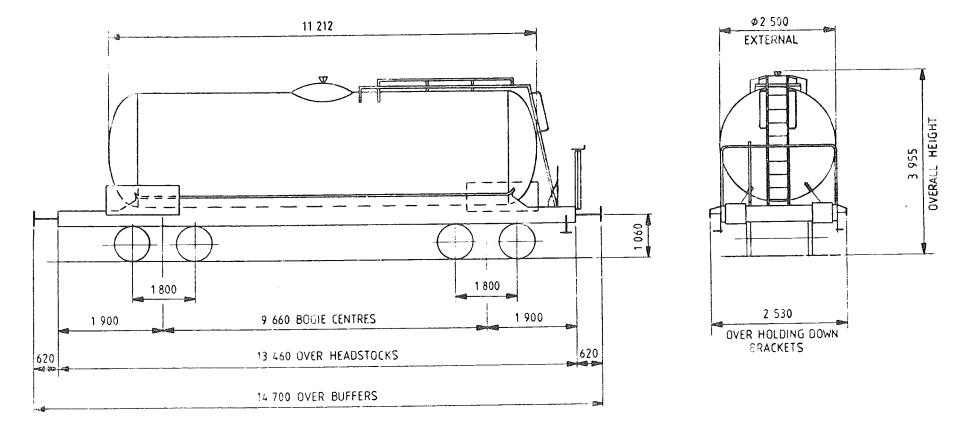
TYPE -	Zcefkks
WAGON No.	- 23 70 7498 005,008,009 003,064,065
BUILDER -	FRANZ KAMINSKI
OWNER -	V.T.G.
	ICCHE 1

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ICE 445

801 GLW BOGIE TANK

Γ	ABCD	TOPS INFORMATION		
	45.6153.6161.61	AARKND OPERATING SPEED	BRAKE FORCE DATA	EXCESS RA DESIGN
Γ		China City	121 FORCE UP TO 401 GLW	LENGTH (GLW) SHEET
		I C B B milch ADOVE 80 COMING GLAG	36t FORCE ABOVE	



TARE -	18-41
CAPACITY, WEIGHT-	61-61
CAPACITY, VOLUME-	53 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 107699

BRAKE -	AIR, VACUUM THROUGH PIPE
SUSPENSION -	Y 25 CS 2 BOGIE
COUPLINGS -	U.I C.
BUFFERS -	US HYDRAULIC 450 x 340 HD
WHEELS -	Ø 920
JOURNALS -	ø 130

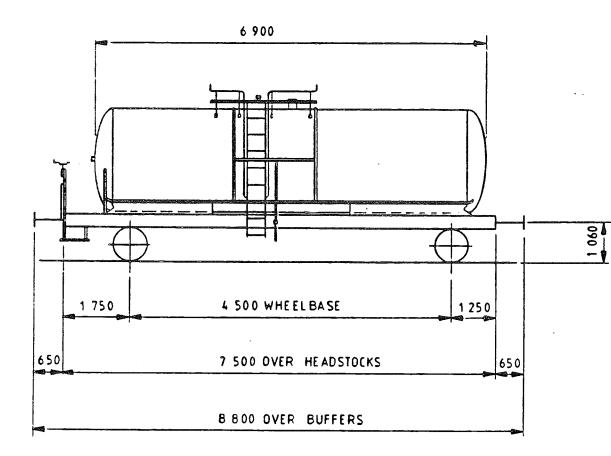
TYPE -	Zafs
WAGON No	33 87 7890 520-554 - ERMEWA 33 87 7890 589-598 - FERT
BUILDER -	FAUVET - GIREL
OWNER -	SEE NUMBER
	100110 .

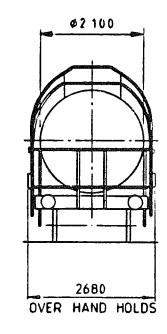
ICE 446

i

401 GLW 2 AXLE TANK

Γ		A	B	C	D		TOPS INFORMATION				
			+ <u> </u>	28.91		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	5 12	20.91	24.91	26.91		CARKND	60 mile/h UP TO 36 tonne GLW	BI FORCE UP TO 261 GLW	LENGTH	(GLW)	SHEET
			<u> </u>	L		C B B	50 mile/h ABOVE 56 tonne GLW	211 FORCE ABOVE	4	6	





ICE 447

TARE -	11.11			
CAPACITY, WEIGHT-	26.91			
CAPACITY, VOLUME-	22 m ³			
FLOOR AREA -	· ·			
MIN. CURVE -	60 m			
GEN. ARRGT. DRG. No W1882				

BRAKE -	AIR; VACUUM THRO PIPE
SUSPENSION	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø370 HD
WHEELS -	Ø 94 0
JOURNALS -	Ø 13 0

TYPE -	Zcfs
WAGON No.	- 23 80 7391 047, 048
BUILDER -	KAMINSKI HAMELN
BUILDER - OWNER -	KAMINSKI HAMELN V T G

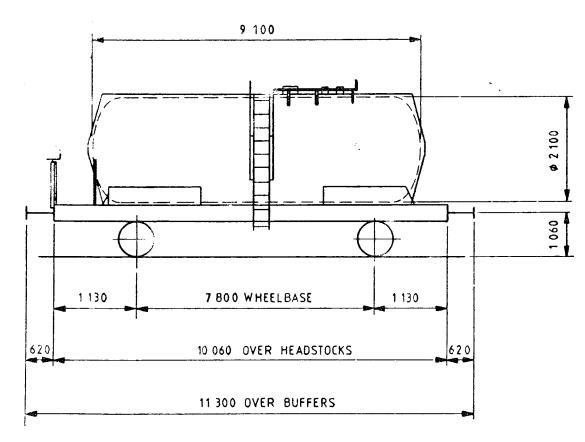
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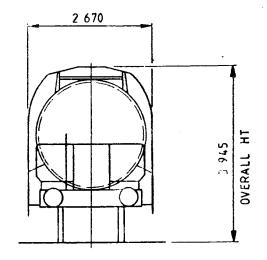
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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

401 GLW TANK WAGON

	Γ	A	B	C	D	· · · · ·	TOPS INFORMATION					
	18	8 ·6 †	22.61	26·6t			AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS		DESIGN
S	18	8-6 t	22·6†	2 6 61			CARKND	60 mile/h UP TO mile/h ABOVE 40 tonne GLW	91 FORCE UP TO 211 FORCE ABOVE 251 GLW	LENGTH 8	(GLW) 6	SHEET





ICE 451

TARE -	13-41
CAPACITY, WEIGHT-	26.61
CAPACITY, VOLUME-	30 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	1.13494.0.01

BRAKE -	AIR.VACUUM THROUGH PIPE
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.1.C.
BUFFERS -	RINGFEDER Ø370
WHEELS -	Ø 920
JOURNALS -	Ø 130

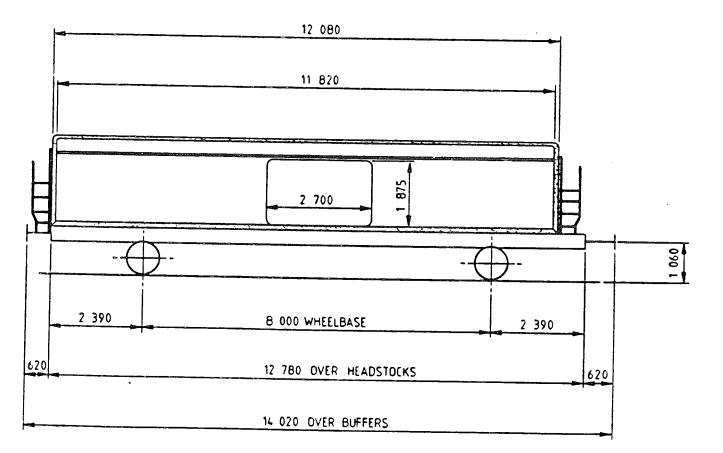
TYF: -	Zcefs
WAGON No	23 80 7398 027-036
BUILDER -	LINKE-HOFMANN-BUSCH
OWNER -	V.T.G

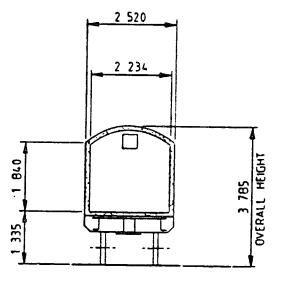
ISSUE 1

NK WAGON

361 GLW 2 AXLE REFRIGERATOR VAN

	A	B	C	D			TOPS INFO	RMATION	<u> </u>		7
s	 		201		CARKND	OPERATING S	SPEED	BRAKE FORCE DATA	EXCESS		DESIGN
						60 mile/h UP TO	36 tonne GLW	8+ FORCE UP TO	LENGTH	(GLW)	SHEET
	 			L)		Innon noore		151 FORCE ABOVE	12	5	1





11E 452

TARE -	16 t	
CAPACITY, WEIGHT-	20t	
CAPACITY, VOLUME-	46m ³	
FLOOR AREA -	25m ²	
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	2485	

BRAKE -	DUAL	
SUSPENSION -	DOUBLE LINK	and the second
COUPLINGS -	U. I. C.	
BUFFERS -	Ø 470 HD	
WHEELS -	Ø 1 000	
JOURNALS -	Ø 130	

TYPE -	Ibfips
WAGON No	04 83 8091 000,001
BUILDER -	SNIA VISCOSA
OWNER -	INTERFRIGO

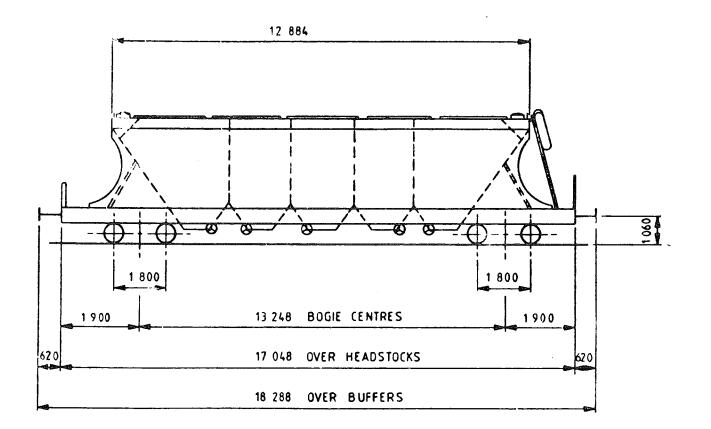
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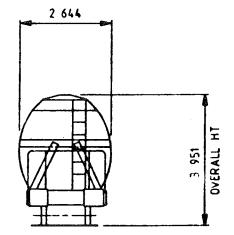
80t GLW BOGIE COVERED HOPPER

IPE 453

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Γ	Τ	A	8	Γ	C	D		TOPS INF	DRMATION	· · · · · · · · · · · · · · · · · · ·]	
			48.9	-			AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN	ŝ
S	4	0.9	489	<u>†</u> 56	·9t		CARKND	60 mile/h UP TO 72 tonne GLW	151 FORCE UP TO 461 GLW	LENGTH	(GLW)	SHEET	•
L				_			IPBL	50 mile/h ABOVE /2 tolline GLW	371 FORCE ABOVE	9	6		





TARE -	23.11	
CAPACITY, WEIGHT-	56.91	
CAPACITY, VOLUME-	30 m 3	
FLOOR AREA -		,
MIN. CURVE -	35 m	
GEN. ARRGT. DRG. No	-108420	

BRAKE -	AIR: VACUUM THROUGH PIPE
SUSPENSION -	Y25 (S2
COUPLINGS -	U.I.C
BUFFERS -	US HYDRAULIC 450+340HD
WHEELS -	\$920
JOURNALS -	ø130

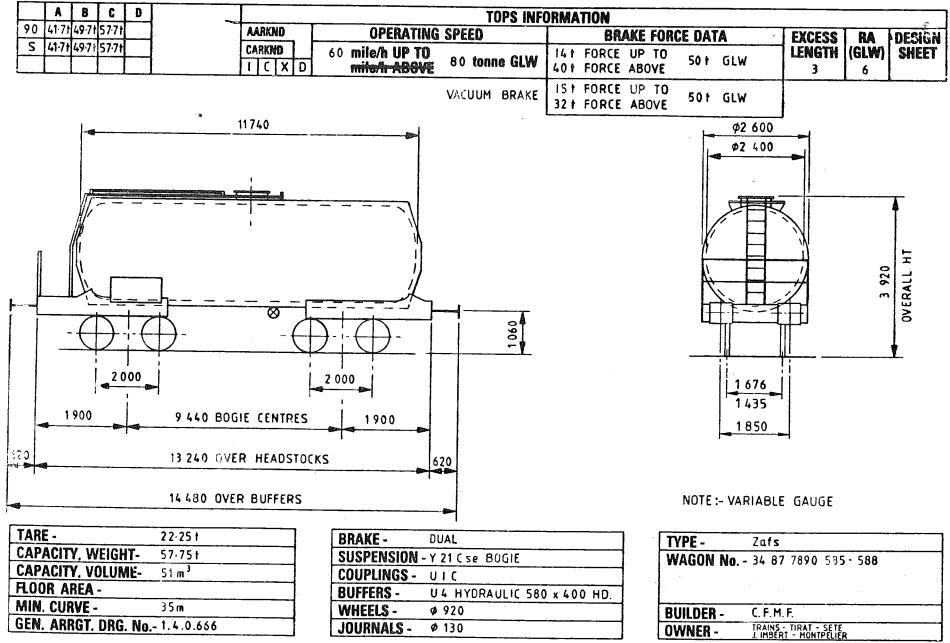
TYPE -	Uafoos
WAGON No.	33 87 9382 000-021
BUILDER -	FAU VE T-GIREL
OWNER -	SOCIETE HAVRAISE DE GESTION

ISSUE 1

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80 T GLW BOGIE TANK

ICE 454

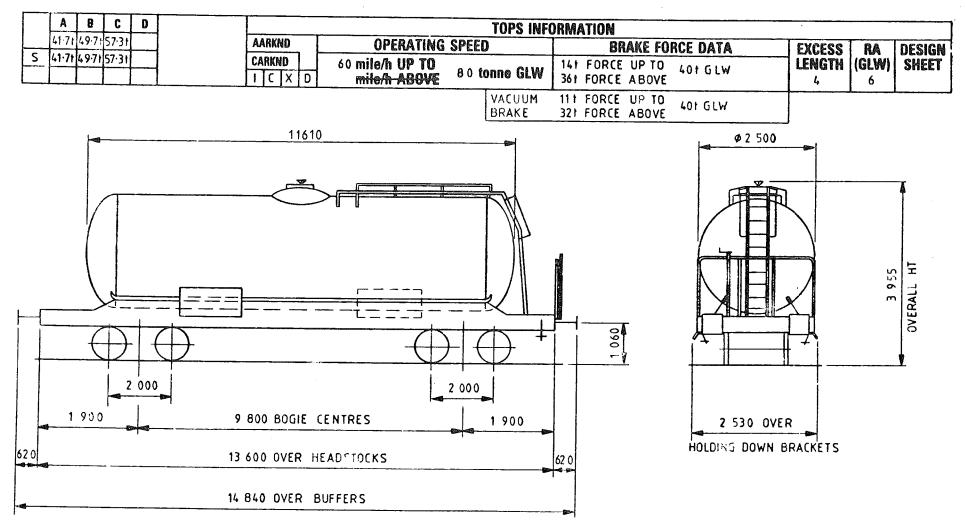


ISSUE 1

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80+ GLW BOGIE TANK

ICE 456



TARE -	22.7751
CAPACITY, WEIGHT-	57-3t
CALACITY, VOLUME-	54·5 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 108460

BRAKE -	DUAL
SUSPENSION -	Y 21CSe
COUPLINGS -	U.I.C.
BUFFERS -	TYPE U4A. 580 + 400 HD
WHEELS -	Ø 920
JOURNALS -	Ø130

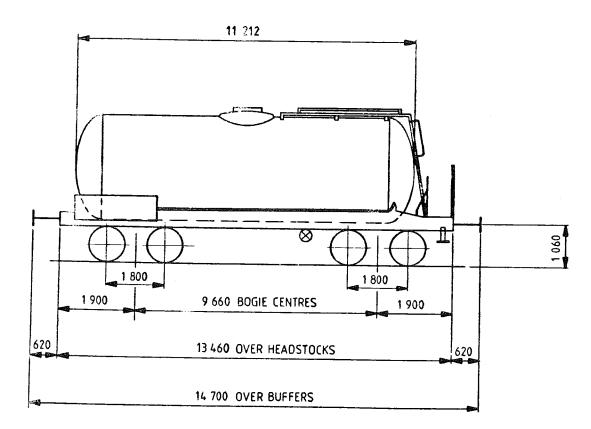
TYPE -	Zafs
WAGON No.	- 515, 516 34 87 7890 518, 519
BUILDER -	FAUVET-GIREL
OWNER -	ERMEWA

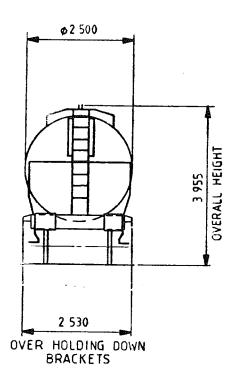
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ISSUE 1

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		A	B	C	D		TOPS INF	DRMATION				
╞	÷-		<u> </u>	61.41	1	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN	-
┝	-	+2.41	55.41	61.61	┣──	CARKND	60 mile/h UP TO B0 tonne GLW	12 + FORCE UP TO 40 + GLW		(GLW)	SHEET	
			L	<u>I</u>	L	ICBD	mile ABOVE, 80 101116 GLAA	361 FORCE ABOVE 401 GEW	3	5		





TARE -	18·6†	
CAPACITY, WEIGHT-	61.41	
CAPACITY, VOLUME-	53 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No	108633	

BRAKE -	AIR, VAC. THRO' PIPE
SUSPENSION	- Y25 (S 2 BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 450 x 340 HD
WHEELS -	Ø 920
JOURNALS -	Ø130

TYPE -	Zafs	
WAGON No	- 33 87 7890 500-514	
		1000 - 1000 - 1000
BUILDER -	FAUVET - GIREL	
OWNER -	ERMEWA	

ISSUE 1

4 AXLE TANK

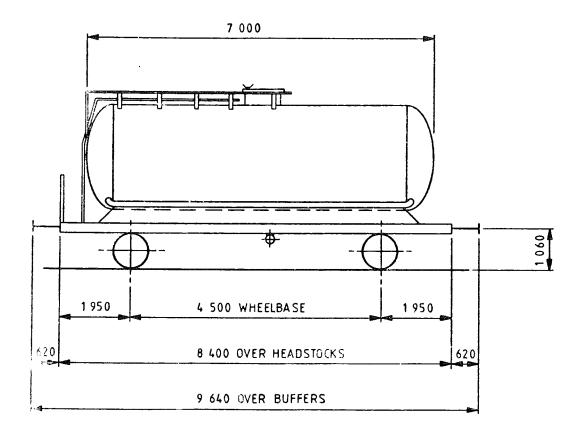
ICE 457

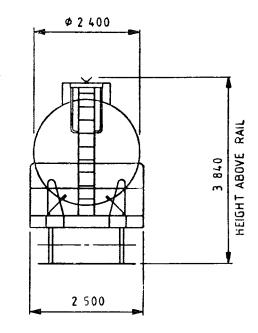
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2 AXLE TANK

	Ţ	A	8	C	D		TOPS INFORMATION				
	2	20.51	24·5†	28-51	1	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	5 12	20.51	24.51	24.51		CARKND	60 mile/h UP TO 10 tonne Cutt	6 + FORCE UP TO 22 + CIV	LENGTH	(GLW)	SHEET
L						1 C B B	-mile/h-ABOVE- 40 tonne GLW	18 + FORCE ABOVE 23 + GLW	6	6	





TOTAL LOAD IN U.K. 35 ton CAPACITY = 24 ton (U.K.) TARE = 11.5 ton

TARE -	11·5 t
CAPACITY, WEIGHT-	28 5 1
CAPACITY, VOLUME-	30 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- 10187C

BRAKE -	AIR & VAC THRO'PIPE
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U. I. C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 960
JOURNALS -	

TYPE -	Zfs
WAGON No.	, - 23 87 7390 515, 516
	×
UILDER -	ATELIERS d'OCCITANIE
BUILDER - DWNER -	ATELIERS d'OCCITANIE

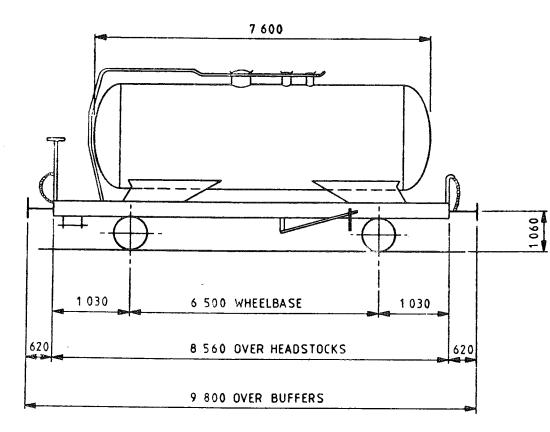
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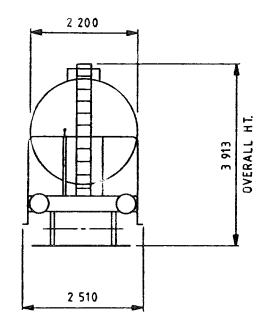
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ICE 460

2 AXLE 401 GLW TANK

ſ		A	B	C	D		TOPS INFO	DRMATION			
		20	24 1			AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
ł	S	201	24 t	281		CARKND	60 mile/h UP TO 40 tonne GLW	8 t FORCE UP TO 26 t GLW 21 t FORCE ABOVE 26 t GLW	LENGTH 6	(GLW) 6	SHEET





TARE -	12 t
CAPACITY, WEIGHT-	28 t
CAPACITY, VOLUME-	27·7 m ³
FLOOR AREA -	· · · · · · · · · · · · · · · · · · ·
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	-K 421.01.00

BRAKE -	AIR, VACUUM THRO'PIPE
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RING FEDER Ø 370 HD.
WHEELS -	Ø 920
JOURNALS -	ø 130

TYPE -	Zcefs	
WAGON No	23 80 7398 037-046	
BUILDER -	GRAAF	
OWNER -	V. T. G.	

ISSUE 1

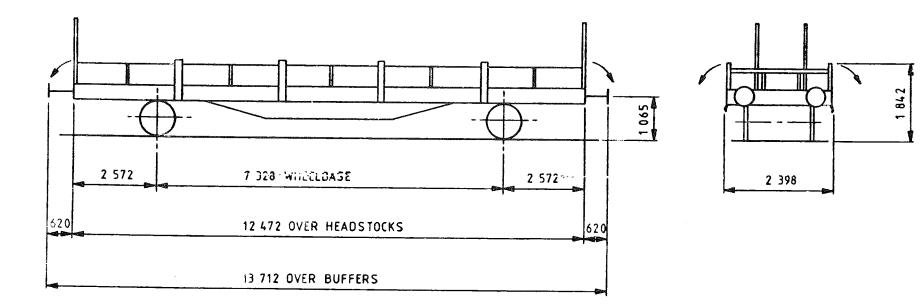
ICE 463

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2 AXLE 3 PLANK FLAT

IFE 464

	A	8	C	D		TOPS INFO	DRMATION	<u> </u>)
		221	<u> </u>		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGR
	18 t	22 t	221		I F B B	60 mile/h UP TO 50 mile/h ABOVE ³⁶ tonne GLW	7 t FORCE UP TO 19 t FORCE ABOVE 24 t GLW	LENGTH		SHEET



TARE -	13-67 1	
CAPACITY, WEIGHT-	25 t	
CAPACITY, VOLUME	a	
FLOOR AREA -	26.5 m ²	
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. N	0 5030	

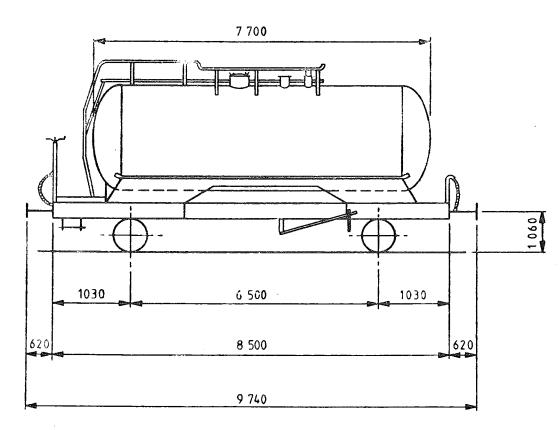
BRAKE -	AIR; VAC. THRO'PIPE
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U. I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø1000
JOUPNALS -	Ø 120

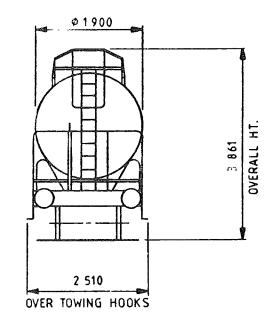
TYPE -	Lfs
WAGON No.	- 21 88 4140 200 - 299
BUILDER -	CW GENTBRUGGE

ISSUE 1

40 t GLW TANK

Γ		Ą	Ι	B	Γ	C	D			TOPS INFO	RMATION				
	2	20-5	it 2	45	1/21	3·5†]	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN	The start
L	<u>s</u> z	20.5	12	4·5	1/28	3·5t			CARKND	60 mile/h UP TO 40 tonne GLW	8 + FORCE UP TO 24 + GIW	LENGTH	(GLW)	SHEET	
L									ICBB	-mile/h ABOVE- 40 Conne GLV4	21 + FORCE ABOVE 26 + GLW	6	6		J





TARE -	11·5 t
CAPACITY, WEIGHT-	28·5 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	· · · · · · · · · · · · · · · · · · ·
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- K. 426.01 - 00

BRAKE -AR & VAC	THRO'PIPE; PLATFORM SCREW & HAND LEVER
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RING FEDER Ø 370 HD.
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zcfs
WAGON No.	- 23 80 7391 052 - 056
BUILDER -	GRAAF
OWNER -	V. T. G.

ISSUE 1

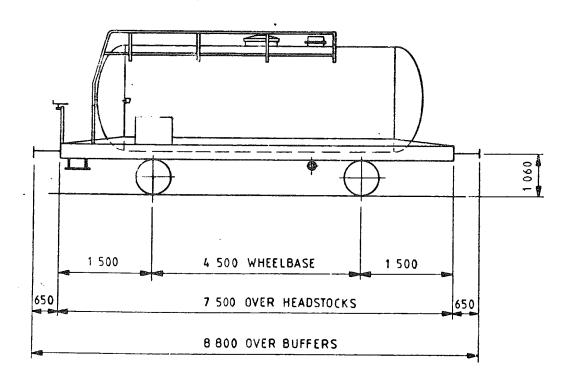
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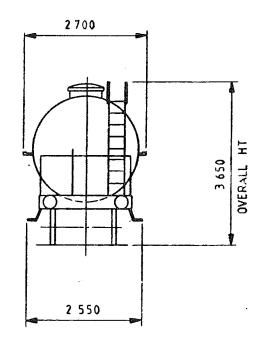
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ICE 469

401 GLW TANK

C D B **TOPS INFORMATION** A 21-91 25-91 29-91 AARKND **OPERATING SPEED BRAKE FORCE DATA** EXCESS RA DESIGN LENGTH (GLW) SHEET CARKND 45 mile/h UP TO mile/h ABOVE 71 FORCE UP TO 171 FORCE ABOVE 211 GLW 40 tonne GLW 1 C 8 5 4





TARE -	10-1 }
CAPACITY, WEIGHT-	29.91
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	······································
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 677

BRAKE -AIR & V	AC. THRO PIPEIPLATFORM SCREW & SIDE LEVER
SUSPENSIO	- SINGLE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC
WHEELS -	¢920
JOURNALS -	Ø130

TYPE -	Zf
WAGON N	0 23 83 7190 008 · 031
BUILDER -	JOIGNY
OWNER -	ETRA

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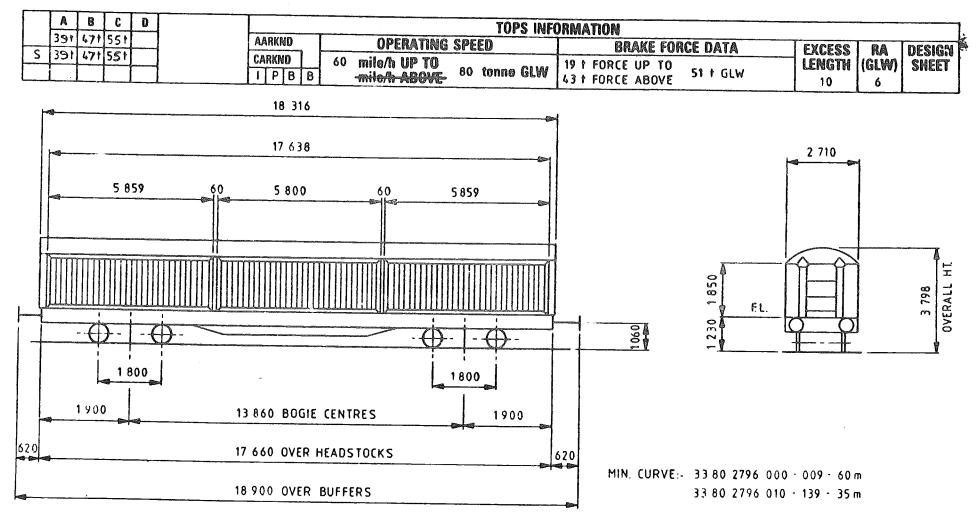
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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

ICE 470

80 t GLW BOGIE VAN (MARK 1)

IPE 471



TARE -	24 400 Kg
CAPACITY, WEIGHT-	54 t
CAPACITY, VOLUME-	90 m ³
FLOOR AREA -	44 m ²
MIN. CURVE -	SEE ABOVE
GEN. ARRGT. DRG. No.	- 913 535.0.01

BRAKE -	AIR & VAC THRO'PIPE; SIDE SCREW
SUSPENSION	- LHB 74
COUPLINGS -	U. I. C.
BUFFERS -	HYDRAULIC Ø 480
WHEELS -	Ø 920
JOURNALS -	Ø 130

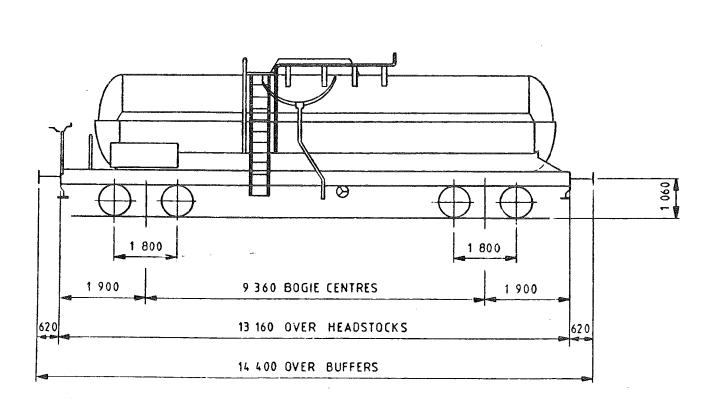
TYPE -	Hafis
WAGON No	33 80 2796 000 - 139
•	
BUILDER -	LINKE HOFMANN BUSCH

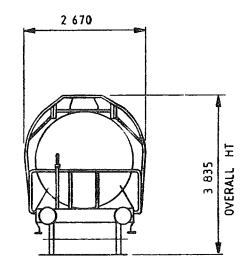
ISSUE 1

801 GLW BOGIE TANK

ICE 472

Γ	Ţ	A	B		C	Ø		TOPS INFORMATION							
	_ŀ	ما .لاز	1 47.4	• • • • •	5.61			AARKND	OPERATING	SPEED	BRAKE FOR	CE DATA	EXCESS	RA	DESIGN
5	5	39.4	447.1	415	5-61			CARKND	60 mile/h UP TO	80 tonne GLW	171 FORCE UP TO	541 GLW	LENGTH	(GLW)	SHEET
L							~	ICBD	mileA-ABOVE	OA MIIIIA AFAA	431 FORCE ABOVE	741 9 6 44	3	6	





TARE -	24.6t	
CAPACITY, WEIGHT-	55-4 +	
CAPACITY, VOLUME-	34 m ³	
FLOOR AREA -	· · ·	
MIN. CURVE -	35 m	
GEN. ARRGT. DRG. No	-0.52287. 0.01	

BRAKE - AIR 8	VAC THRO PIPE PLATFORM	1 & SIDE SCREW
SUSPENSION	D B BOGIE	
COUPLINGS -	VIC	
BUFFERS -	· · ·	
WHEELS -	Ø920	
JOURNALS -	Ø130	

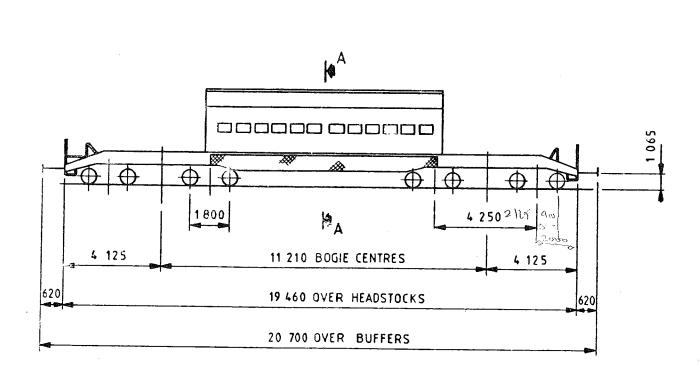
TYPE -	Zacefs
WAGON No	33 80 7995 001 002
BUILDER -	LINKE-HOFMANN-BUSCH
OWNER -	VTG

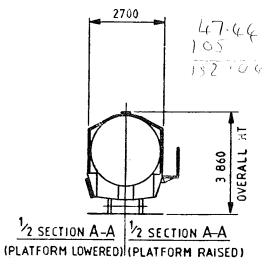
ISSUE 1

ATOMIC FLASK WAGON

B! B2 C2 C3 C4 A TOPS INFORMATION 52-8t 57t 81-5t 85-9t 97.5t AARKND **OPERATING SPEED BRAKE FORCE DATA** EXCESS RA LENGTH (GLW) DESIGN S 52-81 571 81-51 85-91 97.51 CARKND 60 mile/h UP TO mile/h ABOVE 301 FORCE UP TO SHEET 153 tonne GLW 801 GLW IPB 721 FORCE ABOVE ٢ 13 8

FLASKS OF 80, 97 & 1051 MAY BE CARRIED





TARE -	47-441
CAPACITY, WEIGHT-	
CAPACITY, VOLUME-	-
FLOOR AREA -	,,,
MIN. CURVE -	50'm UNCOUPLED
GEN. ARRGT. DRG. No	101714

	THRO PIPE; PLATFORM	& SIDE SCREW
SUSPENSION	- Y11M	
COUPLINGS -	UIC	
BUFFERS -	HYDRAULIC	
WHEELS -	Ø920	
JOURNA'S -	Ø130	· <u>··</u> ········

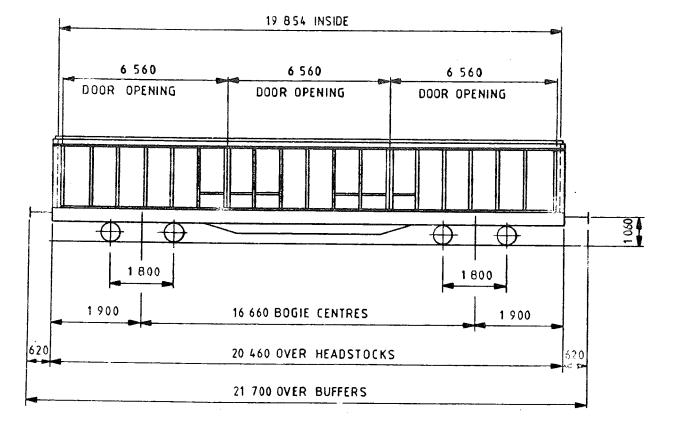
TYPE -	Uaafis
WAGON No.	- 33 87 9985 000-007
· · · ·	· · · · · · · · · · · · · · · · · · ·
BUILDER -	FAUVET GIREL
OWNER -	NUCLEAR TRANSPORT LTD
	ISSUE 1

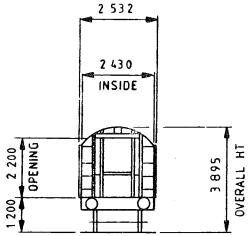
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801 GLW BOGIE VAN

IPE 476

		A	B	C	D]			TOPS INFO	ORMATION	· · · · · · · · · · · · · · · · · · ·			
				53.7	÷	4	AARKND	OPERATING	SPEED	BRAKE FOR	CE DATA	EXCESS	RA	DESIGR
	5	37·7†	4571	5371	·[Į	CARKND	60 mile/h UP TO	80 tonne GLW	191 FORCE UP TO	FAL CI			SHEET
L			L	L	<u> </u>	I	IPBB	mile/h ABOVE	OA IDIME OFAA	441 FORCE ABOVE	S11 GLW	14	১	





TARE -	26-231
CAPACITY, WEIGHT-	53-71
CAPACITY, VOLUME-	114 m ³
FLOOR AREA -	48 m ²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	- AZ089 011

BRAKE -	AIR & VAC. THRO' PIPE; SIDE SCREW
SUSPENSION	- DB BOGIE (TALBOT)
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC Ø 450 HD
WHEELS -	Ø 920
JOURNALS -	Ø130

TYPE -	Habfis
WAGON No.	- 33 80 2797 500 - 579
	•
BUILDER -	WAGGONFABRIK UERDINGEN

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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

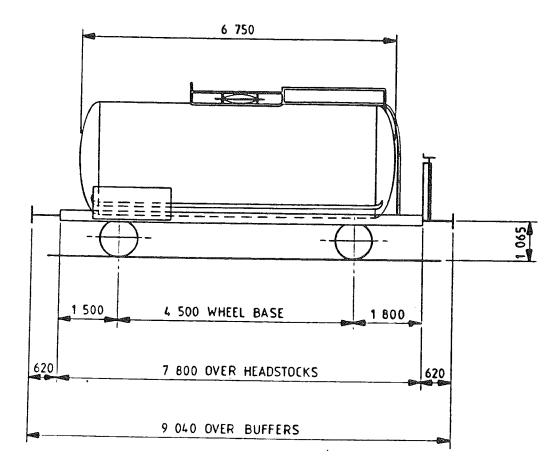
ISSUE 1

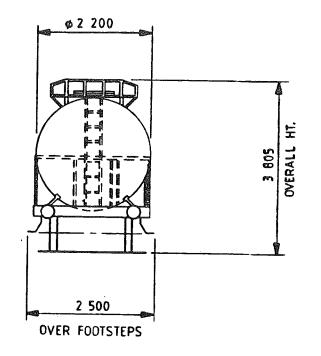
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401 GLW 2 AXLE TANK

ICE 477

	ļ	A	B	C	D		TOPS INFO]		
┝		20·5†	24.51	28.51		AARKND	OPERATING SPEED	BRAKE FORCE DATA		EXCESS	RA	DESIGN
┢						CARKND	50 mile/h UP TO 40 tonne GLW	5t FORCE UP TO	134 CIV	LENGTH	(@:W)	SHEET
L							- TOULE 40 TOULE PLAA	131 FORCE ABOVE	131. GLW	5	6	





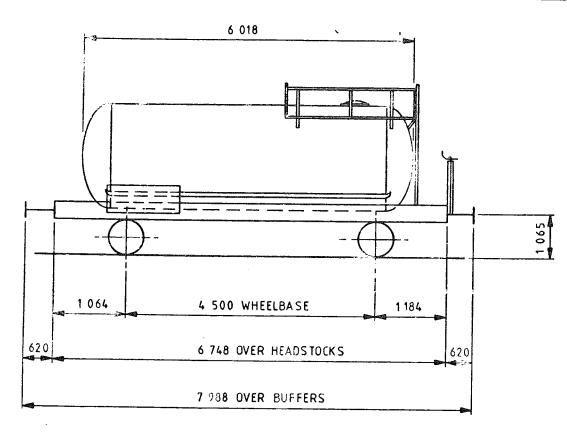
TARE -	11·5t
CAPACITY, WEIGHT-	28·5t
CAPACITY, VOLUME-	24m ³
FLOOR AREA -	-
MIN. CURVE -	60m
GEN. ARRGT. DRG. No.	- 285

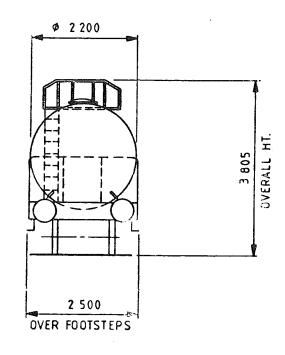
BRAKE - AR & V	AC. THRO PIPE . PLATFORM SCREW & SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	¢1m
JOURNALS -	¢130

TYPE -	Zcf
WAGON	No 23 87 7191 028 - 034
BUILDER	- ATELIERS DE PROVENCE A MIRAMAS
BUILDER OWNER -	- ATELIERS DE PROVENCE A MIRAMAS EUROP - RAIL

40 + GLW 2 AXLE TANK

B C C A **TOPS INFORMATION** 21.5+25 5+29-5+ AARKND **OPERATING SPEED** EXCESS RA DESIGN LENGTH (GLW) SHEET **BRAKE FORCE DATA** CARKND mile/h UP TO mile/h ABOVE 5 # FORCE UP TO 11 # FORCE ABOVE 40 tonne GLW 50 13 1 GLW ICBB 3 5





TARE -	10·5 t	
GRPACITY, WEIGHT-	29.5 1	
CAPACITY, VOLUME-	21 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No	281	

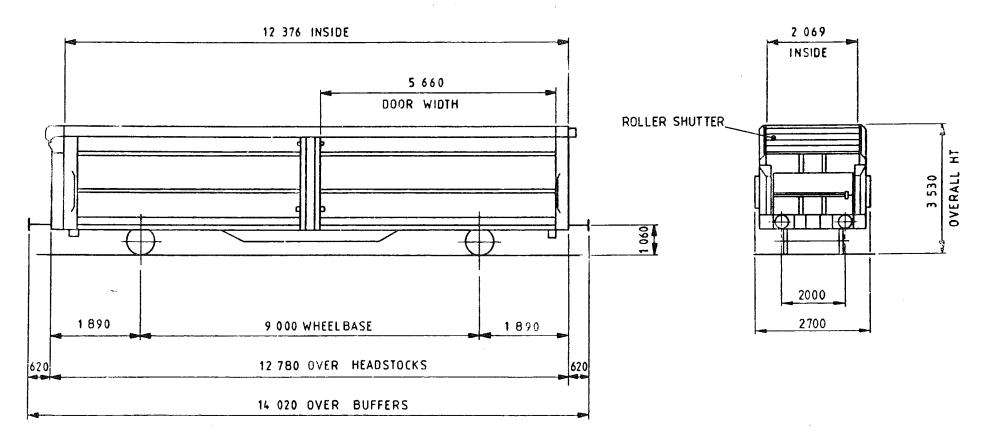
BRAKE - AIR & VAL	THRO PIPE; PLATFORM SCREW, SIDE LEVER
SUSPENSION	- SINGLE LINK
COUPLINGS -	U. I. C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø1 000
JOURNALS -	Ø130

TYPE -	Zcf
WAGON NO	0 23 87 7191 025 - 027
•	,
DIMATE	
BUILDER -A	TELIERS DE PROVENCE A MIRAMAS
BUILDER -A	

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401 GLW 2 AXLE VAN

-		A	B	C	Τ	D		TOPS INFORMATION							
	17	1-5t	21.51	25.	58		AARKND	KND OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S	17	•5†	21.51	25.	5†		CARKND	60 mile/h UP TO mile/h-ABOVE	40 tonne GLW	61 FORCE UP TO 181 FORCE ABOVE	23† G L W	LENGTH 12	(GLW) 6	SHEET	



TARE -	14.51
CAPACITY, WEIGHT-	25.51
CAPACITY, VOLUME-	61 m ³
FLOOR AREA -	27 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- 895-0-002M

BRAKE - AIR &	VAC THRO PIPE; SIDE SCREW
SUSPENSION	- DOUBLE LINK
COUPLING .	U.I. C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 92 0
JOURNALS -	Ø130

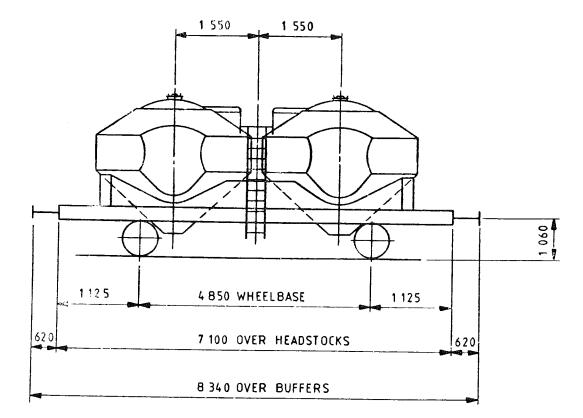
TYPE -	Tblis	
WAGON NO	0 21 88 5799 000-049	
BUILDER -		
BUILDER - OWNER -	SNCB	

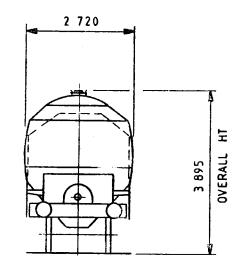
ILE 479

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401 GLW TWIN HOPPER

	A	B	C	D			TOPS INFORMATION							
		251		÷		AARKND	OPERATING	SPEED	BRAKE FOR	ICE DATA	EXCESS	RA	DESIGN	ŧ
S	211	251	251			CARKND	60 mile/h UP TO	ac tonno Cliat	51 FORCE UP TO	204 6114		(GLW)	SHEET	1
		<u> </u>	L		l	IHBA	50 mile/h ABOVE	25 tonne GLW	151 FORCE ABOVE	201 GLW	4	6		





TARE -	111
CAPACITY, WEIGHT-	291
CAPACITY, VOLUME-	27 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DEG. No	- 2763

BRAKE -	AIR & VAC THRO PIPE; SIDE LEVER
SUSPENSION	- SINGLE LINK
COUPLINGS -	UIC
BUFFERS	HYDRAULIC
WHEELS -	Ø1000
JOURNALS -	¢130

TYPE -	Ucfs		
WAGON No	23 87 9192	001	
BUILDER -	SIMOLEA	<u></u>	
BUILDER - OWNER -	SIMOLAA		<u>.</u>

ISSUE 1

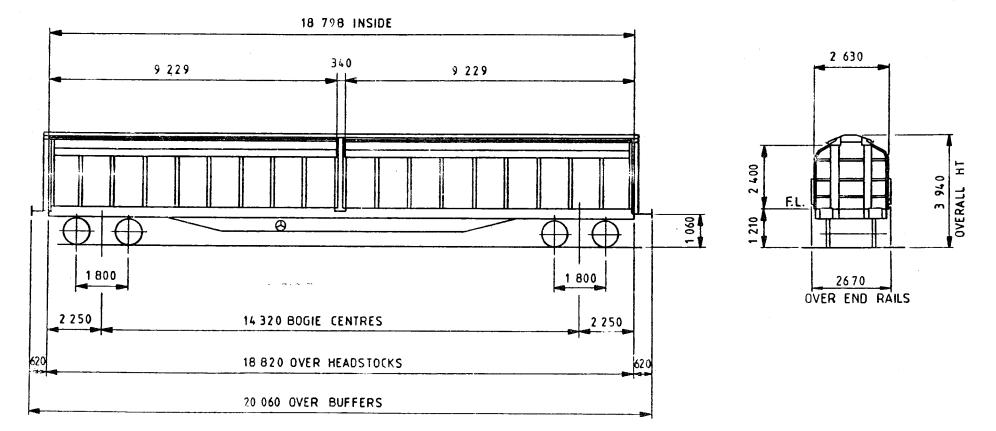
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IPE 480

801 GLW BOGIE VAN

	Τ	A	B	C	D		TOPS INF	ORMATION	· · · · · · · · · · · · · · · · · · ·		
90	0	38 t	461	54		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA D	ESIGN
S	_	38†	461	54		CARKND I P B B	60 mile/h UP TO mile/h ABOVE 80 tonne GLW	19t FORCE UP TO 43t FORCE ABOVE 52t GLW	LENGTH	(GLW) . 9	SHEET



TARE -	26t
CAPACITY, WEIGHT-	541
CAPACITY, VOLUME-	118m ³
FLOOR AREA -	47 m ²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	- 9 13543 0 01

BRAKE -	AIR & VAC. THRO PIPE; SIDE SCREW
SUSPENSION	-DB BOGIE (TALBOT)
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø920
JOURNALS -	Ø130

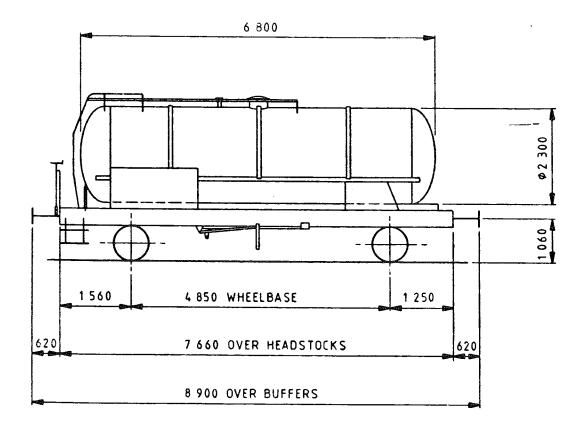
TYPE -	Habfis
WAGON No	33 80 2797 000-009, 011-160
	83 80 2797 161 - 170, 172 - 209
BUILDER -	LINKEHOFMANN BUSCH
OWNER -	VIG
	100115

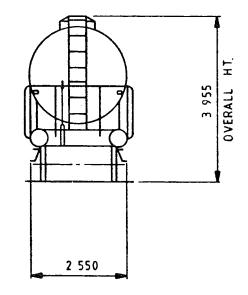
ISSUE 1

IPE 481

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Γ		A	B	C	D	TOPS INFORMATION					
	\downarrow	20 ł	24 t	281		AARKND	OPERATING SPEED BRAKE FORCE DATA	EXCESS	RA	DESIGN	
	5	20 †	24†	24†		CARKND ICBC	60 mile/h UP TO 50 mile/h ABOVE 30 tonne GLW 14 t FORCE UP TO 27 t FORCE ABOVE 28 t GLW	LENGTH 4	(GLW) 6	SHEET	





TARE -	12 t
CAPACITY, WEIGHT-	28 t
CAPACITY, VOLUME-	27 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	8 . 115443

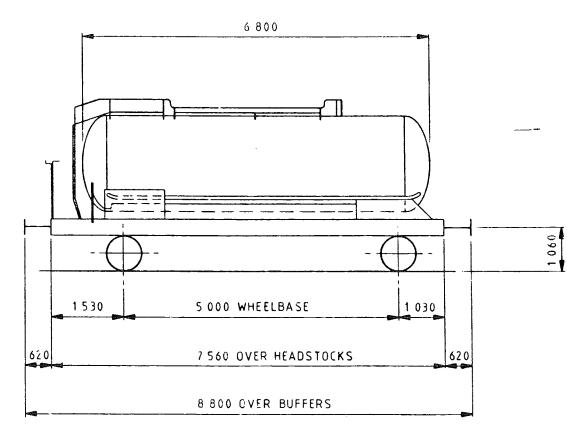
BRAKE -AIR & VAC	THRO PIPE; PLATFORM SCREW & SIDE LEVER]
SUSPENSION	SINGLE LINK	1
COUPLINGS -	U.I.C.	1
BUFFERS -	HYDRAULIC Ø 390	1
WHEELS -	Ø 1 000	1
JOURNALS -	Ø 130	1

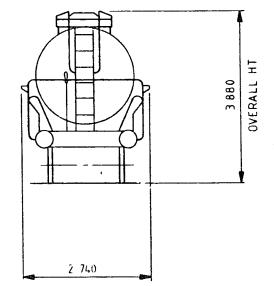
TYPE -	Zefs
WAGON No	23 85 7 397 750 & 751
BUILDER -	JOSEF MEYER
OWNER -	SBB / CFF
	LOOUE 4

ICE 488

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		A	8	C	D		TOPS INFORMATION				
-	2	1·31	25.31	2931		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	2	1·3†	12 7 11	29.31		CARKND	60 mile/h UP TO	8 + FORCE UP TO 21 + GIV	LENGTH	(GLW)	SHEET
						ICBC	50 mile/h ABOVE 36 tonne GLW	21 t FORCE ABOVE 24 t GLW	4	6	





TARE -	10·7 t
CAPACITY, WEIGHT-	29 3 t
CAPACITY, VOLUME-	22 m ³
FLOOR AREA -	•
MIN. CURVE -	60 m
GFN. ARRGT. DRG. No.	- 152320 0 11

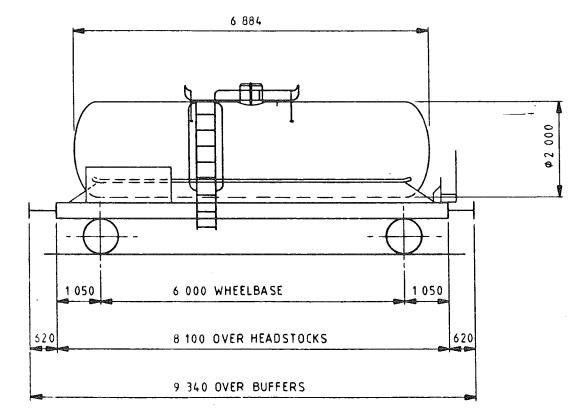
BRAKE -AIR& V	AC THRO'PIPE, PLATFORM & SIDE LEVER
SUSPENSION	- SINGLE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC Ø 460
WHEELS -	Ø 1000
JOURNALS -	Ø 130

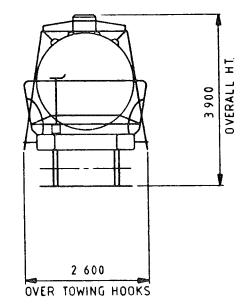
TYPE -	Zefs
WAGON No.	- 23 80 7391 057
BUILDER -	LINKE-HOFMANN-BUSCH
OWNER -	VIG.
	ISSUE 1

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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

	T	A	B	C	D		TOPS INFORMATION					
	Γ	18 t	221	261		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN	
S		181	221	26 †		CARKND	60 mile/h UP TO (0 toppe CIVA/	7 + FORCE UP TO 20 + GLW	LENGTH	(GLW)	SHEET	
						ICBB	mile/h ABOVE 40 tonne GLW	18 + FORCE ABOVE 20 F GLW	5	6		





TARE -	14 ł
CAPACITY, WEIGHT-	26 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- 113580

BRAKE -AIR&VA	CTHRO'PIPE, PLATFORM& SIDE SCREW
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 440 x 330
WHEELS -	Ø 1 000
JOURNALS -	Ø 130

TYPE -	Zcfkks	
WAGON No	23 87 7491 000	
		2
BUILDER -	FAUVET-GIREL	
OWNER -	LOGEMAFER, PARIS	
	ISSUE	1

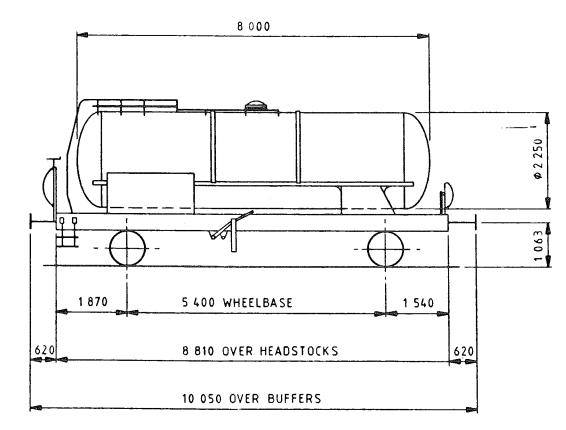
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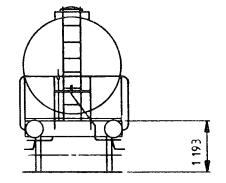
ICE 492

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ICE 493

	A	8		C	D		TOPS INFORMATION						
	20	24	† :	28 t		AARKND	OPERATING	SPEED	BRAKE FOI	RCE DATA	EXCESS	RA	DESIGN
5	20	24	+	28 t		CARKND	60 mile/h UP TO -mile/h ABOVE	40 tonne GLW	12 t FORCE UP TO 28 t FORCE ABOVE	27 t GLW	LENGTH 6	(GLW) 6	SHEET





TARE -	12	t
CAPACITY, WEIGHT-	28	t
CAPACITY, VOLUME-	30	m ³
FLOOR AREA -		
MIN. CURVE -	60	۳.
GEN. ARRGT. DRG. No	3 -	115967

BRAKE -AIR & VAC THRO PIPE, PLATFORM SCREW & SIDE LEVER					
SUSPENSION - DOUBLE LINK					
COUPLINGS -	U I.C.				
BUFFERS -	HYDRAULIC Ø 400 HD.				
WHEELS -	ø 1 000				
JOURNALS -	ø 130				

TYPE -	Zcefs
WAGON No	23 85 7398 500 - 521
BUILDER -	Josef Meyer
OWNER -	ETRA
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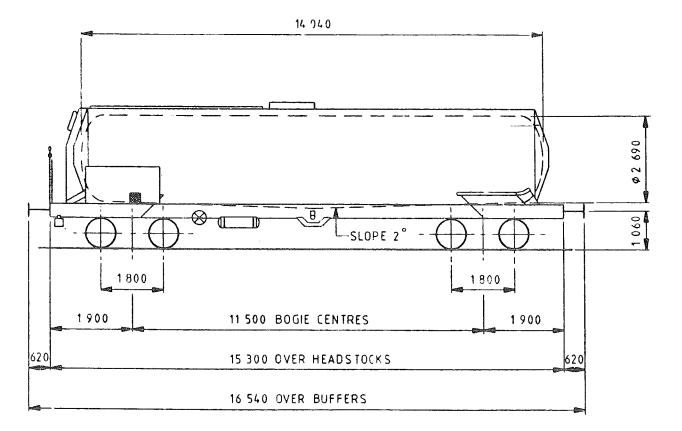
Original © BRB Residuary Ltd

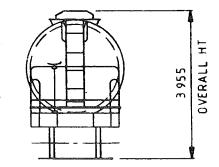
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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

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TOPS INFORMATION C Α 8 D 42-31 50-31 58-31 **OPERATING SPEED** BRAKE FORCE DATA EXCESS RA DESIGN LENGTH (GLW) SHEET AARKND DESIGN S 42315031583t CARKND 60 mile/h UP TO mile/h ABOVE 14 FORCE UP TO 36 FFORCE ABOVE 40 F GLW 80 tonne GLW 120 ICA 6 00 0t 6 D





TARE -	21·7 t
CAPACITY, WEIGHT-	58-3 t
CAPACITY, VOLUME-	61 m ³
FLOOR AREA -	······
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	-1.4.0.854

BRAKE -	AIR; PLATFORM & SIDE SCREW.
SUSPENSION	- Y 25 C S 2
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 450 x 340
WHEELS -	Ø 920
JOURNALS -	Ø 130

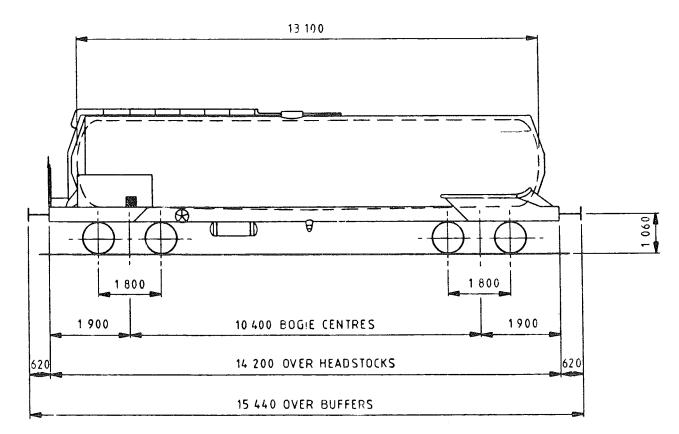
TYPE -	Zuets
WAGON No	33 87 7992 000 - 015
	* * · · · · · · · · · · · · · · · · · ·
BUILDER -	C.F.M.F
OWNER -	NACCO, PARIS

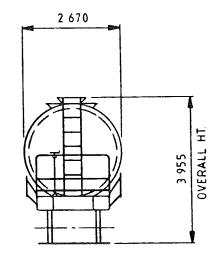
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	T	A	B	C	D	1	TOPS INFORMATION					
	4	371	517	159	7†		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	Ľ	3.71	1517	t 59	7†		CARKND	60 mile/h UP TO B0 tonne GLW	13 + FORCE UP TO 38 + GLW	LENGTH	(GLW)	SHEET
12(0		00.0	10			ICAD	-milo/h ABOVE 60 IOInie GLAA	40 + FORCE ABOVE JO + GEW	5	6	





TARE -	20·3 t
CAPACITY, WEIGHT-	59·7 t
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	· · · · · · · · · · · · · · · · · · ·
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 2 - 4 - 0 - 639

BRAKE -	AIR; PLATFORM & SIDE SCREW
SUSPENSION -	, Y 25(s2
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 450 x 340 HD.
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zacefs
WAGON No.	- 33 87 7995 000,001,002
BUILDER -	C.F. M.F
OWNER -	C.E.P.M. PARIS

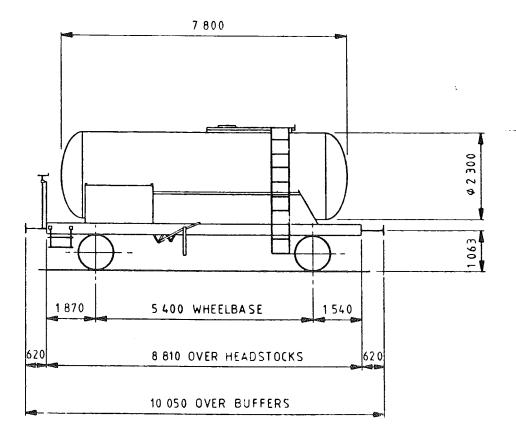
ICE 498

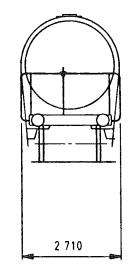
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A B C 20 t 24 t 28 t **TOPS INFORMATION** D AARKND **OPERATING SPEED** EXCESS RA DESIGN LENGTH (GLW) SHEET **BRAKE FORCE DATA** DESIGN 20 1 24 1 28 1 S mile/h UP TO mile/h ABOVE 12 † FORCE UP TO 28 † FORCE ABOVE 33 † GLW CARKND 60 40 tonne GLW ICBC 6 6

·. .





TARE -	12.6 t
CAPACITY, WEIGHT-	28 t
CAPACITY, VOLUME-	30 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- 3-116267

BRAKE -	AIR S VA- THREE FIFE FLATFFRM SCREWSCRLEVE
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	
JOURNALS -	· · · · · · · · · · · · · · · · · · ·

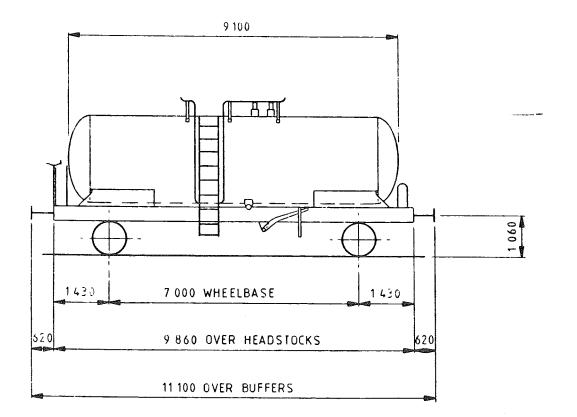
TYPE -	Zís
WAGON No.	- 23 85 7390 500 - 567
•	· · ·
BUILDER -	J MEYER, RHEINFELDEN
BUILDER - OWNER -	J MEYER, RHEINFELDEN ETRA AG ZURICH

ICE 499

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	Ţ	A	8	C	D		TOPS INFORMATION				
		19†	231	27†		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	S	19 t	231	271		CARKND	60 mile/h UP TO 40 tonne GLW	9 + FORCE UP TO 26 + GLW	LENGTH	(GLW)	SHEET
L	L				L		milo/h ABOVE. 40 tonne GLAA	21 + FORCE ABOVE 26 + GLW	8	6	•



NOTE -- WAGON No 23 80 7398 062 IS ABLE TO OPERATE IN FINLAND. 2 690 OVFR SIGNAL LAMP ARMS UNDER TO DEPENDENT OF THE STREET TO DEPENDENT OF THE STREET OF TH

TARE -	13 t
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME-	30 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	K467.01.00

BRAKE - AIR & V	AC THRU FIFE FLATFURM SCREW & STOE LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RING FEDER 450 x 340 HD
WHEELS -	Ø 920
JOURNALS -	Ø 130

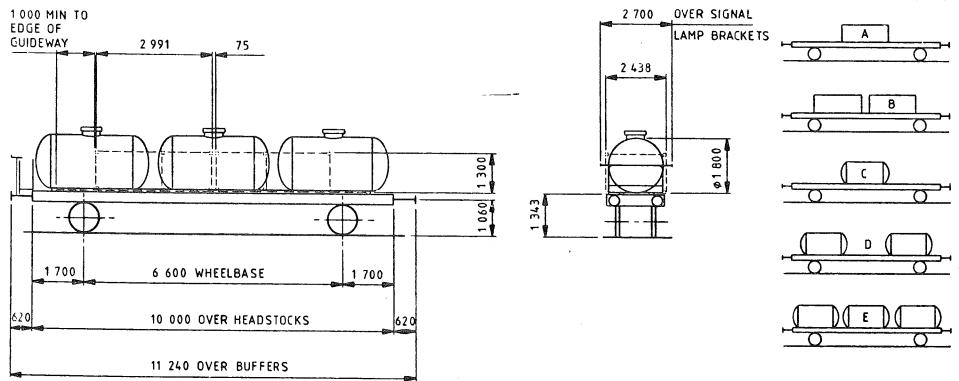
TYPE -	Zcets
WAGON No.	,- 23 80 7398 053 - 062
• • •	
BUILDER -	GRAAFF
OWNER -	ντΰ
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ICE 500

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40 + GLW CONTAINER CARRYING WAGON

C Α 8 D **TOPS INFORMATION** 205124-5128-51 AARKND **OPERATING SPEED BRAKE FORCE DATA** EXCESS RA LENGTH (GLW) DESIGN S 20.5t 24.5t 28.5t CARKND 60 mile/h UP TO mile/h ABOVE 8 + FORCE UP TO 21 + FORCE ABOVE 26 + GLW SHEET 40 tonne GLW IPBF 8 6



TARE -	11.5 t		
CAPACITY, WEIGHT-	28·5t		
CAPACITY, VOLUME-	2 2 · 5 m ³		
FLOOR AREA -			
MIN. CURVE -	60 m	,	
GEN. ARRGT. DRG. No.	- W 1971		·····

BRAKE - AIR, VA	C.THRO'PIPE; PLATFORM SCREW&LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	RING FEDER
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Lfs	
WAGON No.	- 43 80 4141 500 - 502	
BUILDER -	FRANZ KAMINSKI	
OWNER -	SCHERING	

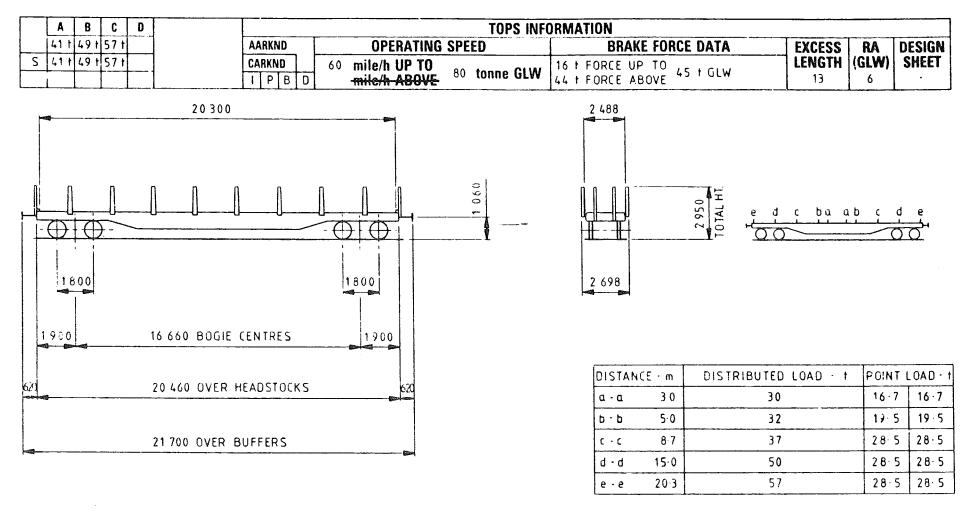
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

POSSIBLE LOADING CONDITIONS

IPE 501

80 + GLW BOGIE FLAT

IPE 502



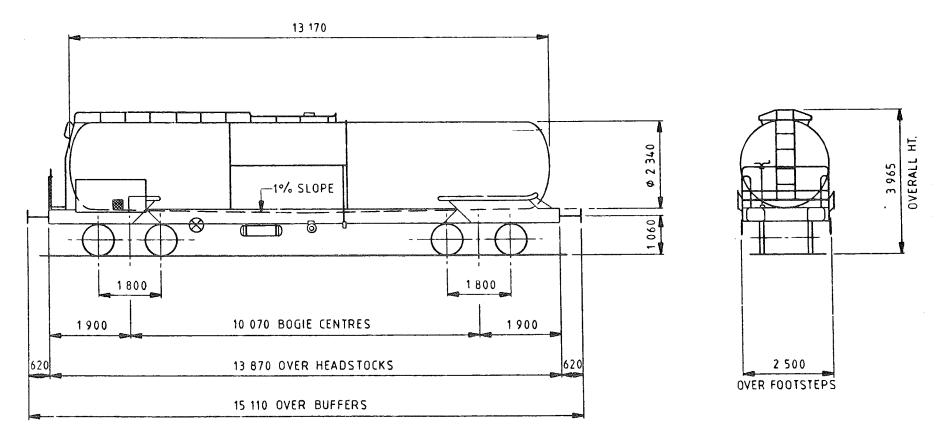
TARE -	23 t
CAPACITY, WEIGHT-	57 t
CAPACITY, VOLUME-	•
FLOOR AREA -	50 m²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	- 9AZ 251 0029

BRAKE -	AIR, VAC THRO'PIPE; SIDE SCREW
SUSPENSION -	· TALBOT BOGIE
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC 450 x 340 HD
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Sis
WAGON No.	- 26 30 0498 000 - 049
	•
	·
BUILDER -	WAGGON UNION
BUILDER - OWNER -	E V.A.

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TOPS INFORMATION 8 C D Α EXCESS RA LENGTH (GLW) DESIGN **BRAKE FORCE DATA** 42.7150.7158.71 AARKND **OPERATING SPEED** SHEET 60 mile/h UP TO mile/h ABOVE 14 T FORCE UP TO 36 T FORCE ABOVE 40 T GLW S 42.71 50.71 58.71 CARKND 80 tonne GLW 4 6 120 10.00 ICA D



TARE -	21·3 t
CAPACITY, WEIGHT-	58.7 +
CAPACITY, VOLUME-	54 m ³
FLOOR AREA -	•
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- 0.4 16 842

BRAKE -	AIR, PLATFORM & SIDE SCREW.
SUSPENSION	- Y25 Cs2
COUPLINGS -	UIC.
BUFFERS -	HYDRAULIC 450 x 340 HD.
WHEELS -	Ø 920
JOURNALS -	Ø 130

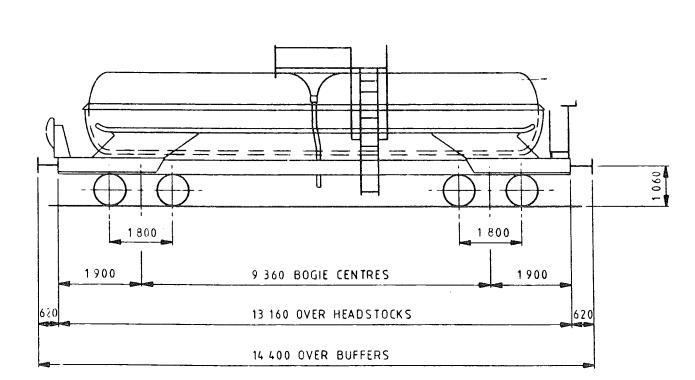
TYPE -	Zacts
WAGON No	33 87 7896 000
	•
BUILDER -	C.F.M.F
OWNER -	SIMOTRA

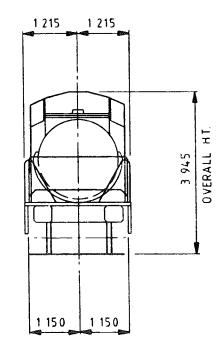
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	A	B	C	D		TOPS INFORMATION					
	38-3	t46·3	t 543	ł	AARK	ND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	38·3	1463	1543	t	CARK	ND	60 mile/h UP TO	18 + FORCE UP TO 45 + GLW	LENGTH	(GLW)	SHEET
					I C	BD	mile/h ABOVE 80 tonne GLW	43 t FORCE ABOVE 45 T OLW	3	6	





TARE -	275 t	
CAPACITY, WEIGHT-	54-3-1	
CAPACITY, VOLUME-	2.7 m ³	
FLOOR AREA -		
MIN. CURVE -	Ĵċπ	
GEN. ARRGT. DRG. NU	112080.0.01	

BRAKE -AIR,VA	C. THRO'PIPE, PLATFORM & SIDE SCREW
SUSPENSION	- LHB 77 BOGIE
COUPLINGS -	U.I.C
BUFFERS -	
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zacfs
WAGON No.	- 33 80 7895 010 - 012
•	
BUILDER -	LINKE · HOFFMAN · BUSCH
OWNER -	V TG.

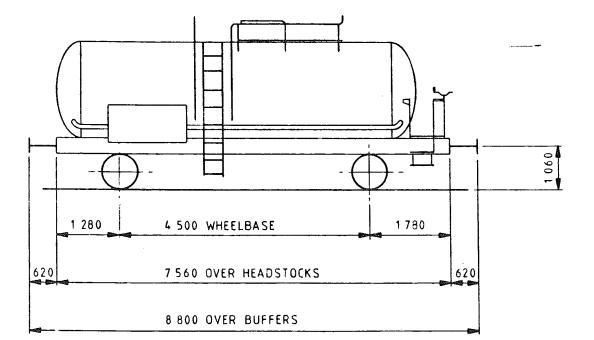
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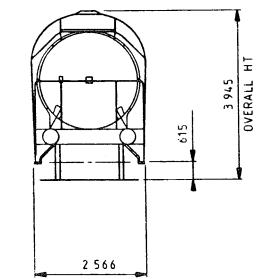
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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

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		A	B	C	D		TOPS INFO	RMATION			
	1	19·7 t		2771		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	1	19.7	23.7	2771		CARKND	60 mile/h UP TO 40 tonne GLW	8 + FORCE UP TO 24 + GLW	LENGTH	(GLW)	SHEET
L						I C B C	mile/h ABOVE 40 tonne GLW	21 FORCE ABOVE 24 TOLW	4	6	





TARE -	12·3 t
CAPACITY, WEIGHT-	27.7 t
CAPACITY, VOLUME-	22 m ³
FLOOR AREA -	· · · · · · · · · · · · · · · · · · ·
MIN. CURVE -	ა0 m
GEN, ARRGT, DRG, No	-152333.001

BRAKE -AIR, VA	C THRO'PIPE; PLATFORM & LEVER.
SUSPENSION	DOUBLE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC Ø 370 HD
WHEELS -	\$ 1000
JOURNALS -	Ø 130

TYPE -	Zigs
WAGON No.	- 2380 7394 010 - 019
BUILDER -	LINKE-HOFMANN-BUSCH
OWNER -	VIG

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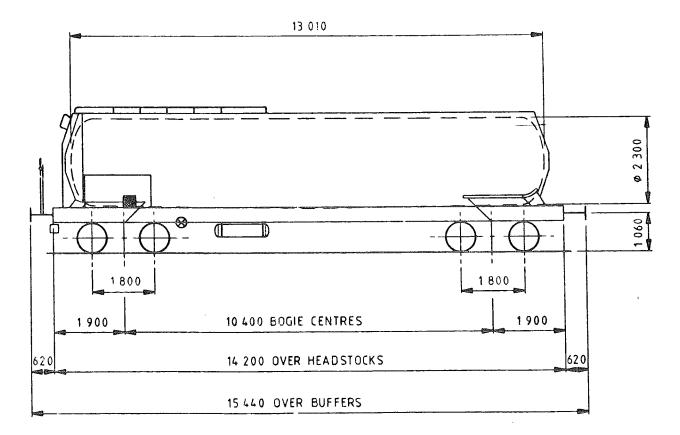
40 t GLW TANK WAGON

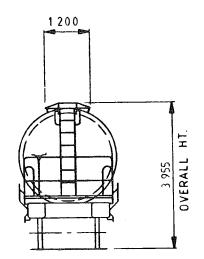
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Γ	Τ	A	Т	B	C	D			TOPS INFO	DRMATION			
	-	425	515	50·5t	58 5 t		AARKND	OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
Γ	S (42 5	5+5	50·5t	58·5†		CARKND	60 mile/h UP TO	80 tonne GLW	14 + FORCE UP TO 40 + GLW	LENGTH	(GLW)	SHEET
1	20		0	0.0	ł		ICAD	mile/h ABOVE	on mine araa	36 + FORCE ABOVE	5	6	





ICE 510

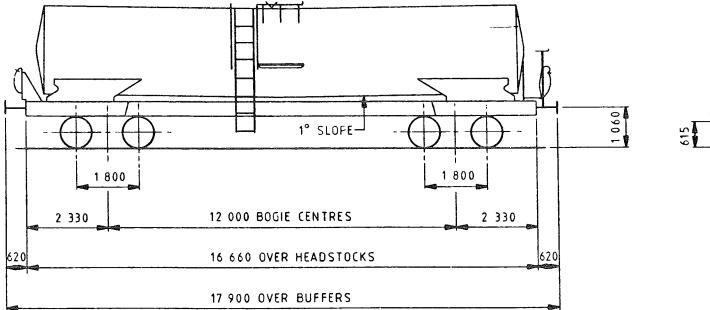
TARE -	21,500 kg
CAPACITY, WEIGHT-	58·5 t
CAPACITY, VOLUME-	52 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	2-4-0-937

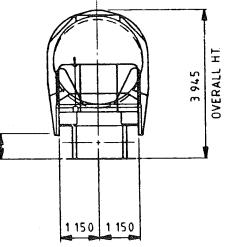
BRAKE -	AIR, PLATFORM & SIDE SCREW
SUSPENSION -	Y25 CS2 BOGIE
CCUPLINGS -	UIC
BUFFERS -	HYDRAULIC 450 x 340
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zacels (3)
WAGON No	33 87 7996 000 - 007
BUILDER -	CFME
OWNER -	2-4-0-937
	ISSUE 1

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TOPS INFORMATION C D B A EXCESS RA LENGTH (GLW) **BRAKE FORCE DATA** DESIGN **OPERATING SPEED** 40.3148.3156.31 AARKND SHEET S 403148315631 60 mile/h UP TO mile/h ABOVE 16 t FORCE UP TO 43 t FORCE ABOVE CARKND 80 tonne GLW 8 6 ICBD





TARE -	2371
CAPACITY, WEIGHT-	56 3 t
CAPACITY, VOLUME-	50 m ³
FLOOR AREA -	
MIN. CURVE -	
GEN, ARRGT, DRG, No	- 712081.0.01

BRAKE -	AIR & VAC. THRO'PIPE SIDE SCREW
SUSPENSION -	DB BOGIE LHB 77
COUPLINGS -	U.I.C
BUFFERS -	450 x 340 HD
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zacefs
WAGON No.	33 80 7995 003 - 012
BUILDER -	LINKE-HOFMANN-BUSCH
OWNER -	V T.G.

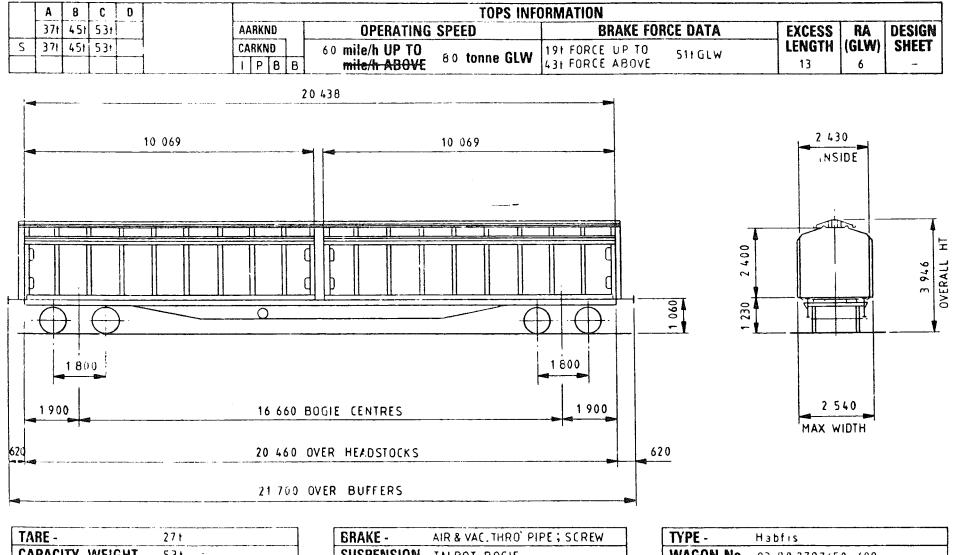
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801 GLW TWO DOOR VAN

IPE 512



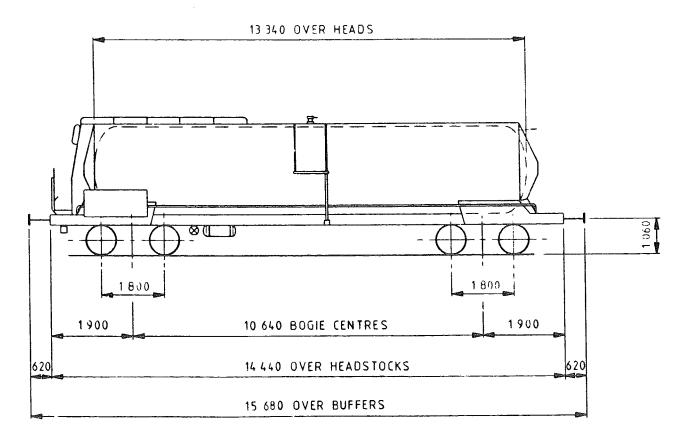
CAPACITY, WEIGHT-	53t .:
CAPACITY, VOLUME	114 m ³
FLOOR AREA -	49.66 m ²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	,-A2094.01.1

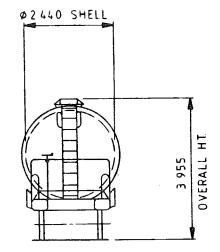
GRAKE -	AIR & VAC. THRO' PIPE ; SCREW
SUSPENSION	TALBOT BOGIE
COUPLINGS -	U.I.C
BUFFERS -	
WHEELS -	Ø920
JOURNALS -	Ø130

TYPE -	Habfis
WAGON No	83 80 2797650 - 699
• •	
	*,
BUILDER -	WAGGONFABRIK VERDINGEN
BUILDER - OWNER -	WAGGONFABRIK VERDINGEN EVA . DUSSELDORF

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	T	A	B	T	C	Đ		TOPS INFORMATION							
	_	431	51	t s			AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN			
S		431	51	1	59t		CARKND	60 mile/h UP TO 80 tonne GL	W 14 FORCE UP TO 40 + GLW	LENGTH	(GLW)	SHEET			
12	0		00	·0†			ICBD	mile/h-ABOVE 80 tolline GL	361 FORCE ABOVE	5	6	L · J			





TARE -	21 t
CAPACITY, WEIGHT-	59 t
CAPACITY, VOLUME-	60 m ²
FLOOR AREA -	•
MIN. CURVE -	60 m
GEN. ARRGT. DRG. Nu	- 2 4 0 929

BRAKE -AIR,VAC	THRO'PIPE PLATFORM & SIDE SCREW
SUSPENSION -	Y25 CS2 BOGIE
COUPLINGS -	UI.C.
BUFFERS -	HYDRAULIC 470 x 340 HD
WHEELS -	Ø 920
JOURNALS -	ø 130

TYPE -	Zacets (3)
WAGON No	33 87 7996 008 - 014
	•
· ·	
BUILDER -	CEMF

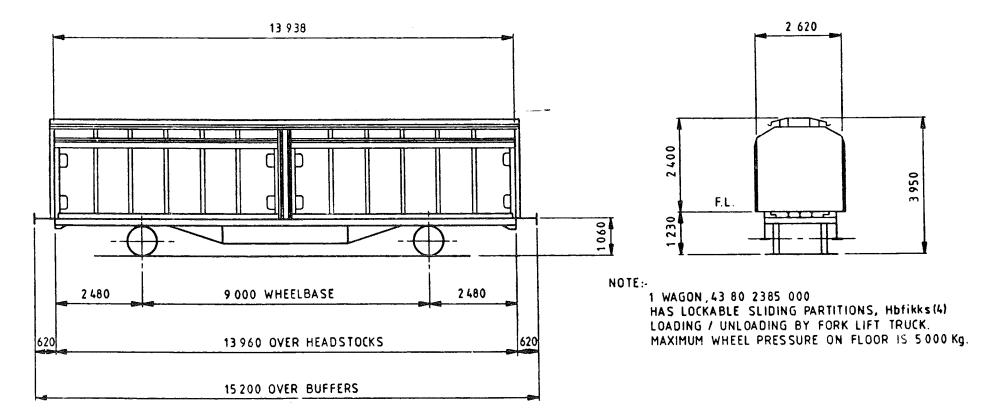
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ISSUE 1

45 t GLW HIGH CAPACITY SLIDING WALL VAN

Γ		A	1	B		: [D		TOPS INFORMATION						
		15	21	19.21	23	2+2	321	AARKND		OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	S	15	2†	19·2 t	23	212	8.21	CARKND	6	o mile/h UP TO	45 tonne GLW	10 + FORCE UP TO 27 + GLW	LENGTH	(GLW)	SHEET
		[_						IPAL]	mile/h ABOVE	45 LOUNG OLAN	21 + FORCE ABOVE 277 OLA	15	6	W 955



TARE -	16·8 t
CAPACITY, WEIGHT-	28·2 t
CAPACITY, VOLUME-	84·7 m ³
FLOOR AREA -	36.4 m ²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	A2100.01 002

BRAKE -	AIR; SIDE SCREW
SUSPENSION -	DOUBLE LINK
CCUPLINGS -	U.I.C.
BUFFERS -	RING FEDER 340 x 450 HD.
WHEELS -	Ø 920
JOURNALS -	Ø130

TYPE -	Hbfikks: Hbfikks (4)				
WAGON No	43 80 2384 000 - 120				
	43 80 2385 000				
BUILDER -	DUEWAG KREFELD				
OWNER -	E.V.A.				
	ISSUE 1				

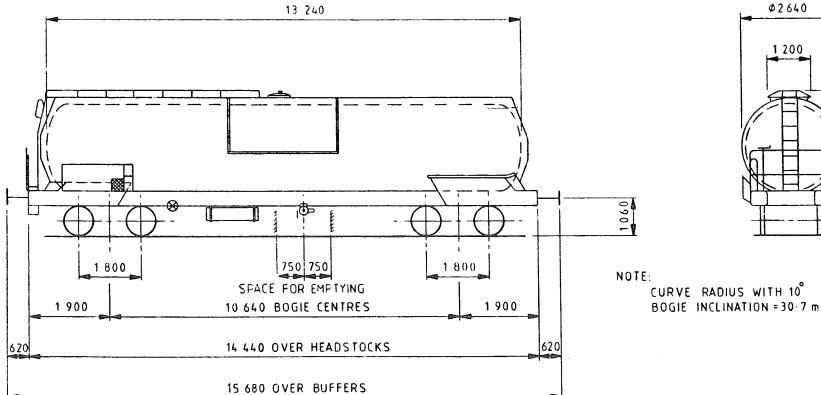
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IPE 514

		A	8	C	D		TOPS INFORMATION						
		428	†508	t 58·8t		AARKND		OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
4	5	428	t 50 ·δ	158.81		CARKND	60	mile/h UP TO	80 tonne GLW	14 FORCE UP TO 44 F GLW	LENGTH	(GLW)	SHEET
12	20		() 0 · 0	<u>†</u>		ICB	D	mile/h-ABOVE	80 tonne GLW	40 + FORCE ABOVE 44 1 ULW	5	6	W 748



Ø2640	
1 200	
	3 955 OVERALL HT

CURVE RADIUS WITH 10°

TARE -	21·2 t
CAPACITY, WEIGHT-	58 8 t
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	
MIN. CURVE - COM IN	DIVIDUALLY OR LOUSE CUUFLED)
GEN. ARRGT. DRG. No	- 2-4-0-1003

BRAKE - AIR & VA	C. THRO'FIPE, FLATFORM& SIDE SCREW.
SUSPENSION -	Y25 CS2 BOGIE
CCUPLINGS -	U.I.C.
BUFFERS -	RUBBER STRING 460 x 340 HD.
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zacets
WAGON No	33 87 7996 030 - 039
DUULDED	C.C.M.C.
BUILDER -	CEME
OWNER -	SIMOTRA

ISSUE 1

ICE 516

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ICE 517

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A B C D		TOPS INFORMATION								
	72145215321	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN			
S 3	7.21452153.21	CARKND	60 mile/h UP TO mile/h ABOVE 80 tonne GLW	19 FORCE UP TO 43 FORCE ABOVE 52 FGLW	LENGTH 5	6 (GLW)	SHEET W 742			
	· · · · · · · · · · · · · · · · · · ·	13 520	INSIDE	-	Ø2700	4				
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				<u>لال</u>			3 919 0VERALL			
	\bigcirc \bigcirc \bigcirc						Ó			
	1800		1800				_			
	2 330	9700 BO	IGIE CENTRES 23	30	2 7 2 0					
					OVER LAMP BRACK	ETS				
620		14360 01	VER HEADSTOCKS	620						
		15 600 0	VER BUFFERS							

TARE -	26 8 t
CAPACITY, WEIGHT-	53-2 t
CAPACITY, VOLUME-	53 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	220 01.00

BRAKE -AIR, VAC	THRO' PIPE, PLATFORM & SIDE SCREW
SUSPENSION -	TALBOT BOGIE BA 661 1
COUPLINGS -	U I.C.
BUFFERS -	RING FEDER
WHEELS -	ø 920
JOURNALS -	Ø 130

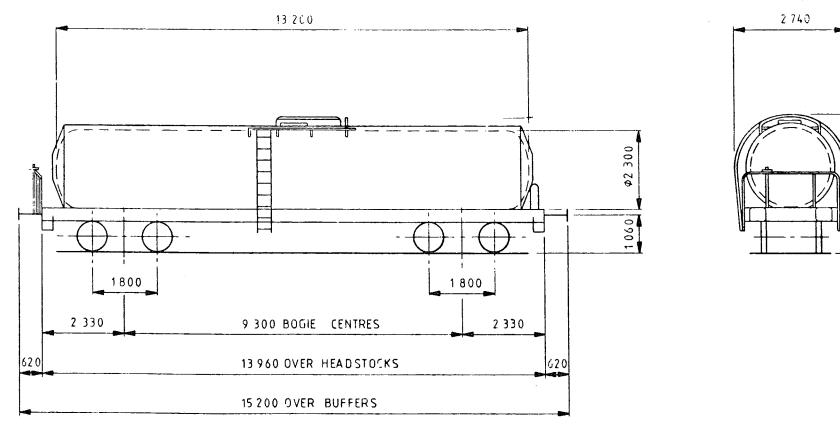
TYPE -	Zacts
WAGON No	33 80 7895 400,401
•	
,	·
BUILDER -	STALWERKE BRUNINGHAUS
OWNER -	AB

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ISSUE 1

Γ		A	8	C	D		TOPS INFORMATION						
		325				AARKND		OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	S	32.5	t 40.5	1485	t	CARKND	60	mile/h UP TO		22 + FORCE UP TO 14 + CIN	LENGTH	(GLW)	SHEET
						ICB	D	mile/h ABOVE	80 tonne GLW	42 t FORCE ABOVE 16 t GLW	4	6	W 741



TYPE -	Zacefkks (3)
WAGON No	33 30 7993 000 - 004
BUILDER -	WAGON UNION

TARE -	315 t
CAPACITY, WEIGHT-	485 t
CAPACITY, VOLUME-	52m ³
FLOOR AREA -	
MIN. CURVE -	60m
GEN. ARRGT. DRG. No.	•

BRAKE - AIR,VAC	THRO'PIPE, PLATFORM & SIDE SCREW.
SUSPENSION	DB BOGIE
CCUPLINGS -	UIC.
BUFFERS -	RING FEDER 460 x 340 HD.
WHEELS -	Ø920
JOURNALS -	Ø130

TYPE -	Zacefkks (3)
WAGUN No	33 30 7993 000 - 004
BUILDER -	WAGON UNION
OWNER -	ΕνΑ

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ISSUE 1

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OVERALL

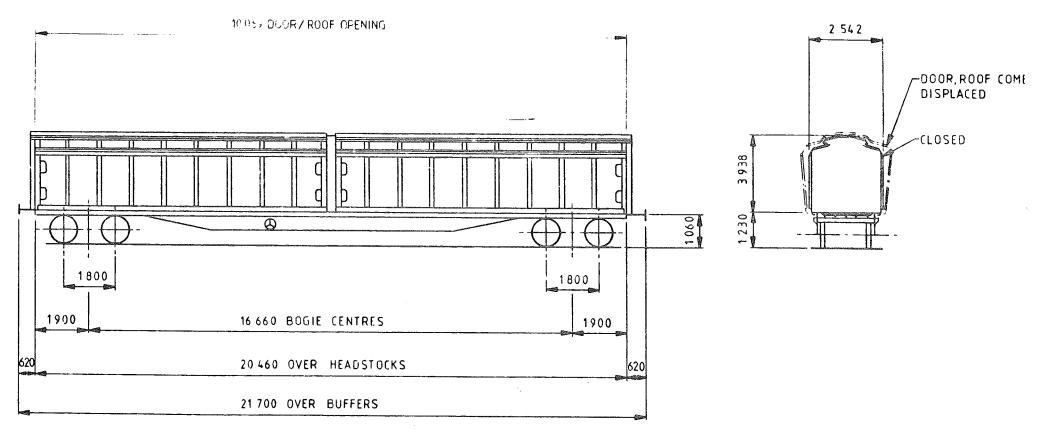
3945

80 T GLW BOGIE ALL DOOR VAN

IPE 521

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İ		A	• 8	<u> </u>		D			TOPS INFO	DRMATION]
			451		†	i	AARKND	OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
Ļ	S	371	451	53	+		CARKND	60 mile/h UP TO	80 tonne GLW	17 + FORCE UP TO , THEIN		(GLW)	
L							 IPBB	mile/h-ABOVE	ON COUNTR OF AA	43 + FORCE ABOVE 47 T ULW	13	6	W725

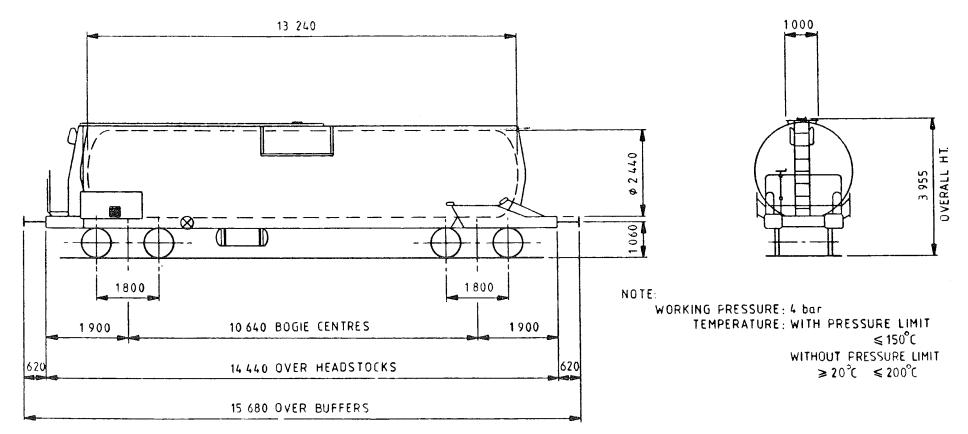


TARE -	27 t
CAPACITY, WEIGHT-	53 t
CAPACITY, VOLUME-	114 m ³
FLOOR AREA -	50 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- A 2094.01 3

BRAKE -	AIR & VAC, THRO'PIPE; SIDE SCREW
SUSPENSION	- TALBOT STANDARD BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	RING FEDER
WHEELS -	\$ 920
JOURNALS -	¢ 130

TYPE -	Sfis
WAGON No	83 80 4743 000
BUILDER -	
BUILDER - OWNER -	WAGON UNION

TOPS INFORMATION 8 C D A 4171 4971 57.71 **BRAKE FORCE DATA** DESIGN **OPERATING SPEED EXCESS** RA AARKND LENGTH (GLW) SHEET S 417+ 497+ 577+ 60 mile/h UP TO mile/h ABOVE 14 FORCE UP TO 437 F GLW CARKND 80 tonne GLW W722 5 6 120 00 Ot ICBD



TARE -	22 3 t
CAPACITY, WEIGHT-	57·7 t
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	•
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	2-4-0-991

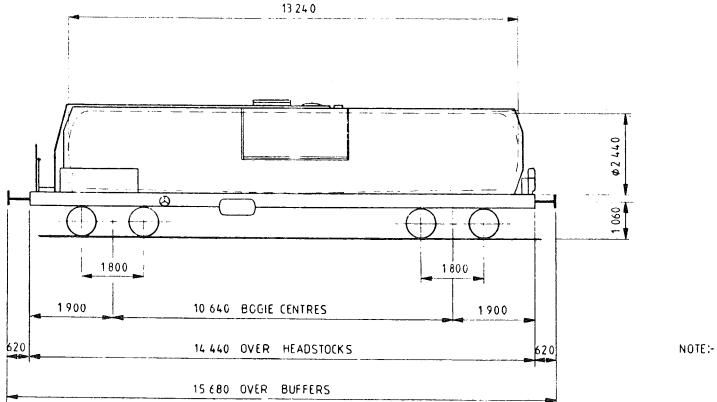
BRAKE -AIR&VAC	THRO'PIPE: PLATFORM& SIDE SCREW.
SUSPENSION -	Y25 CS2
COUPLINGS -	U.I.C
BUFFERS -	RUBBER SPRUNG 460 x 340 HD.
WHEELS -	ø 920
JOURNALS -	ø 130

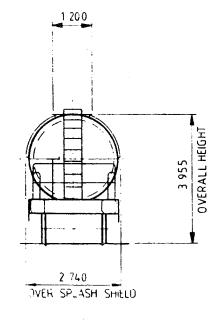
TYPE -	Zacets (3)
WAGON No.	- 33 87 7996 015 - 029
BUILDER -	C.F.M.F.
OWNER -	RHONE · POULENC

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C D 8 А **TOPS INFORMATION** 41.91 49.91 57.91 AARKND **OPERATING SPEED BRAKE FORCE DATA** EXCESS DESIGN RA S 41.914.9.9157.91 FORCE UP TO FORCE ABOVE 45 + GLW CARKND LENGTH (GLW) 60 mile/h UP TO mile/h ABOVE 15 t SHEET 80 tonne GLW 120 10.00 ICBD 44 t W723 5 6





ICE 524

NOTE:- BARREL TEMPERATURE ≤ 200°C. WORKING PRESSURE 3 BAR.

TARE -	22.1 1
CAPACITY, WEIGHT-	57·9 t
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	2-4-0-9-67

BRAKE - AIRS	VAC, THRO PIPE; PLATFORM&SIDE SCREW
SUSPENSION -	TALBOT BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	RINGFEDER+OLEO
WHEELS -	Ø 920
JOURNALS -	Ø 130

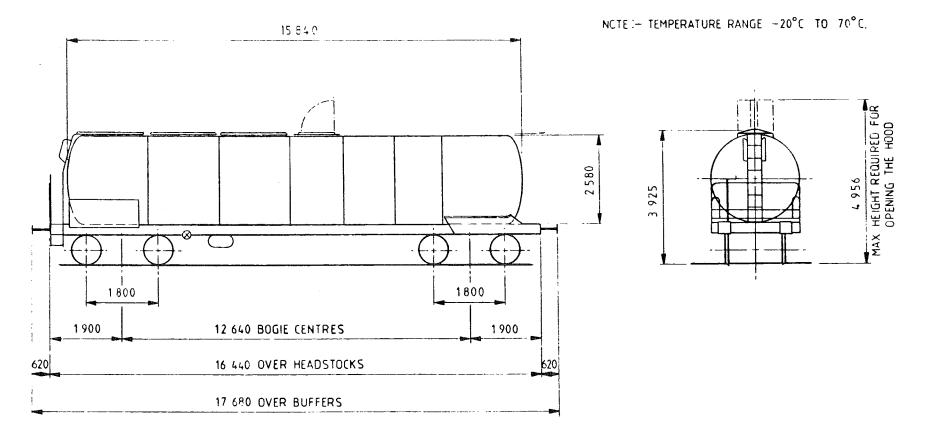
TYPE -	Zacets
WAGON No	33 80 7995 500-515
	CENC
BUILDER -	C.F.M.F.
OWNER -	TRANSGAZ

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ISSUE 1

Γ		A	B	B C D TOPS INFORMATION										
	4	1.71	49·7t	57.7	t		AARKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN
5	5 4	1.7 t	49-71	57.7	t]	CARKND	60 mile/h UP TO	80 tonne GLW	14 t	FORCE UP TO 44 + GLW	LENGTH	(GLW)	SHEET
12	0		00.	01		1	ICBD	mile/h-AB8VE	on found graa	40 t	FORCE ABOVE	8	6	W 724



TARE -	22.3 +
CAPACITY, WEIGHT-	57·7 t
CAPACITY, VOLUME-	80 m ³
FLOOR AREA -	
MIN. CURVE -	37 m
GEN. ARRGT. DRG. No	2-4-1-197

BRAKE - AIR	VAC, THRO' PIPE; PLATFORM& SIDE SCREW
SUSPENSION -	Y 25 Cs2
COUPLINGS -	UIC.
BUFFERS -	HYDRAULIC 450x340 HD
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zacts (3).
WAGON No	33 87 7896 001-007
BUILDER -	C.F.M.F.
OWNER -	SIMOTRA
	10.0117

ISSUE 1

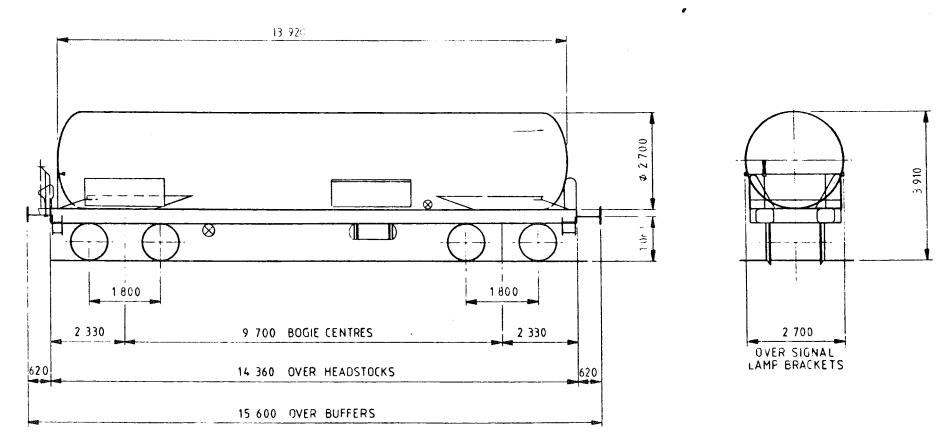
ICE 525

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TOPS INFORMATION 8 C D Α 36.7144.7152.71 **OPERATING SPEED BRAKE FORCE DATA** EXCESS DESIGN AARKND RA LENGTH (GLW) SHEET 20 t FORCE UP TO 43 t FORCE ABOVE 52 t GLW. S B6.7144.7152.71 60 mile/h UP TO mile/h ABOVE CARKND 80 tonne GLW W743 ICBD 5 6



TARE -	27.31
CAPACITY, WEIGHT-	52.71
CAPACITY, VOLUME-	53 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	220.01.00

BRAKE - AIR.	VAC THRO' PIPE; PLATFORM&SIDE SCREW
SUSPENSION -	DB BOGIE BA 661.1
CCUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 460 × 340
WHEELS -	Ø 920
JOURNALS -	Ø 130

ТҮРЕ -	Zafgs
WAGON No	33 80 7891 002-003
BUILDER -	WAGON UNION
OWNER -	EVA
	ISSUE 1

ICE 527

В C D **TOPS INFORMATION** Α 42 81 50 81 58 81 AARKND **OPERATING SPEED BRAKE FORCE DATA EXCESS** RA DESIGN VB 21+ FORCE UP TO AB 16t " " " " 44+ FORCE ABOVE 44+ GLW S 42.81 50.81 58.81 LENGTH (GLW) SHEET CARKND 60 mile/h UP TO mile/h ABOVE 80 tonne GLW 120 00.01 ICXD 6 6 W 920 13170 \$ 21.40 OVERALL HEIGHT 4 300 ß िल 660 ⊗ Ο 2 0 0 0 2 0 0 0 1 435 (SPANISH) 1900 11130 BOGIE CENTRES 1900 620 14 930 OVER HEADSTOCKS 620 z 170 16170 OVER BUFFERS

TARE -	21-2 t
CAPACITY, WEIGHT-	58·8 t
CAPACITY, VOLUME-	59 m ³
FLOOR AREA -	
MIN. CURVE -	45 m
GEN. ARRGT. DRG. No	ONF 182443

BRAKE -	DUAL; PLATFORM & SIDE SCREW
SUSPENSION -	- Y 21 C Se
COUPLINGS -	U.I.C
BUFFERS -	HYDRAULIC 560 x 370
WHEELS -	Ø 920
JOURNALS -	Ø 130

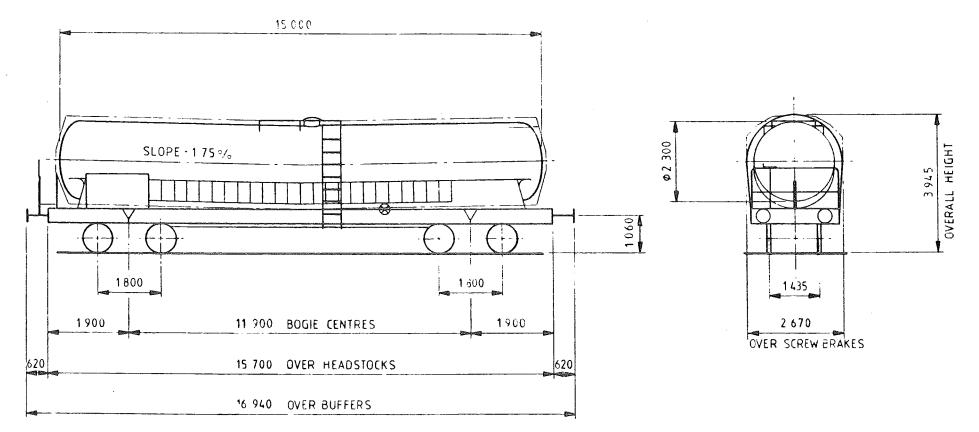
TYPE -	Zefs_
WAGON No.	- 3487 7899 000
BUILDER -	(FMF
OWNER -	R ARMSTRONG LIN LIVERPOOL
	ICCIIE 1

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ISSUE 1

Γ	T	A	Τ	B	C		D	 TOPS INFORMATION							
	4	40	†4	+8 1	56	t		AARKND	OPERATING	SPEED		BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	; [40	+4	8	56	†		CARKND	60 mile/h UP TO		14 t	FORCE UP TO 44+GLW	LENGTH	(GLW)	SHEET
								 ICBD	mile/h-A80VE	80 tonne GLW	45 t	FORCE ABOVE	7	6	W 889



TARE -	24 t
CAPACITY, WEIGHT-	56 t
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	5-117 229

BRAKE - AIR8	VAC, THRO' PIFE . PLATFORM&SIDE SCREW
SUSPENSION -	S B B BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 450 × 340
WHEELS -	Ø 1000
JOURNALS -	ø 130

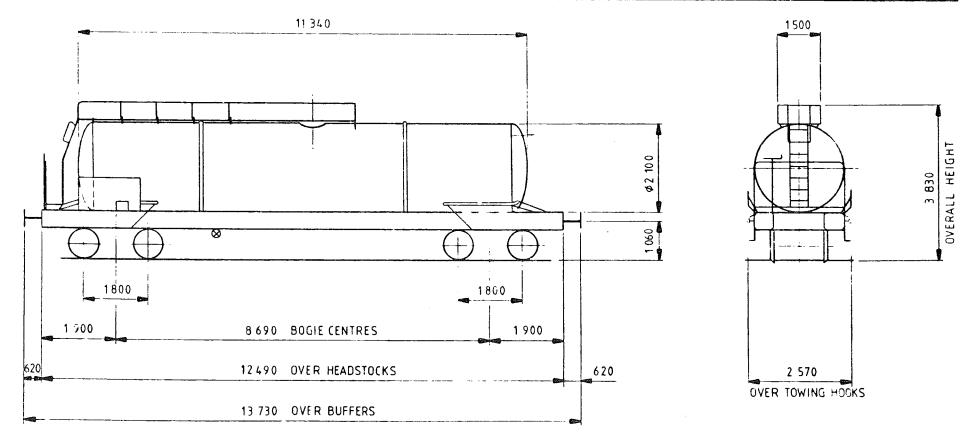
TYPE -	Zacefs
WAGON No	33 85 7995 500-505
BUILDER -	J. MEYER, RHEINFELDEN
OWNER -	ETRA, ZURICH
	ISSUE 1

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80 t G.L.W. BOGIE TANK

A B1 B2 C	TOPS INFORMATION					
44.1 + 49.1 + 52.1 + 60.1 +	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S 44.1 149.11 52.11 60.11	CARKND	60 mile/h UP TO	14 T FORCE UP TO LONGING	LENGTH	(GLW)	SHEET
SS 00.0	ICAD	mile/h OF TO 80 tonne GLW	36 + FORCE ABOVE 40 + GLW	2	6	W940



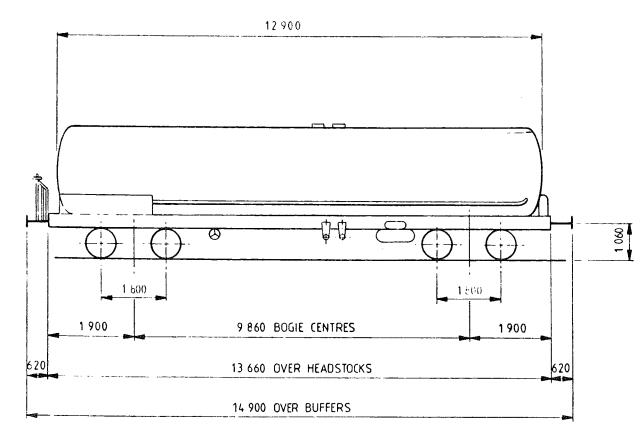
TARE -	19-9 t
CAPACITY, WEIGHT-	60.1 t
CAPACITY, VOLUME-	37 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	3315

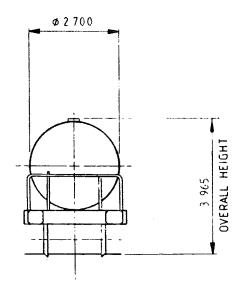
BRAKE -	AIR; PLATFORM & SIDE SCREW
SUSPENSION -	Y25 Cs2
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 450×340
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zacfs (3)
WAGON No	3387 7896 008-011
BUILDER -	C.F. M.F.
OWNER -	SIMOTRA
	ISSUE 1

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		A	B		C	D		TOPS INFORMATION					
	Ē	8.5	46.	515	4·5†		AARKND	OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	5 [8-5	46.	5#51	4.51		CARKND	60 mile/h UP TO	on terms Cliff	18 + FORCE UP TO 48 + GLW	LENGTH	(GLW)	SHEET
12	20		0.00) t			I C B D	-mile/h-ABOVE	80 tonne GLW	43 + FORCE ABOVE 481 ULW	4	6	W932





TARE -	25·5 t
CAPACITY, WEIGHT-	54·5 t
CAPACITY, VOLUME-	70 m ³
FLOOR AREA -	
MIN. CURVE -	36 m
GEN. ARRGT. DRG. No	0-335,01,0050

BRAKE - AIR.	VAC THRO PIPE; PLATFORM&SIDE SCREW
SUSPENSION -	DB BOGIE-WAGON UNION
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 450×340 HD.
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zafgs (3)
WAGON No	33 80 7794 000-004
BUILDER -	WAGON UNION
OWNER -	V.T.G.
	ISSUE 1

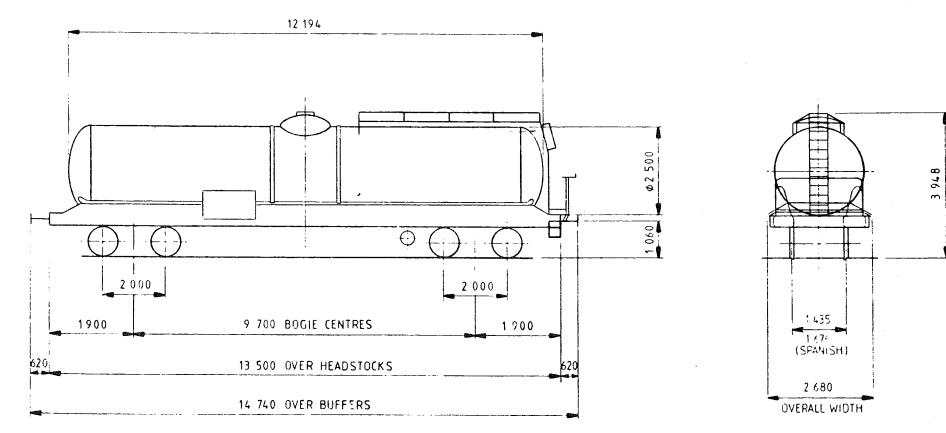
ICE 534

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80 t G.L.W. BOGIE TANK

	A	В	С	D		TOPS INFORMATION				
	41.9	5149.5	+ 57-7	L	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	41.5	5t49.	157-71		CARKND	60 mile/h UP TO	AB 16 t FORCE UP TO VB 21 t "" " 43 t GLW	LENGTH	(GLW)	SHEET
120	1	00	0			milc/h ABOVE 80 tonne GLW	A B 41 F FORCE ABOVE 431 GLW	4	6	W 929



TARE -	22·5 t
CAPACITY, WEIGHT-	57+5 t
CAPACITY, VOLUME-	58 m ³
FLOOR AREA -	· · · · · · · · · · · · · · · · · · ·
MIN. CURVE -	35m
GEN. ARRGT. DRG. No	102956

BRAKE -	DUAL, PLATFORM & SIDE SCREW
SUSPENSION -	Y21 C SE
COUPLINGS -	U.I.C.
BUFFERS -	HYDPAULIC 590 × 340 HD
WHEELS -	\$920
JOURNALS -	≠130

TYPE -	Zaets
WAGON No	34 87 7899 010-014
BUILDER -	FAUVET-GIREL
OWNER -	ERMEWA

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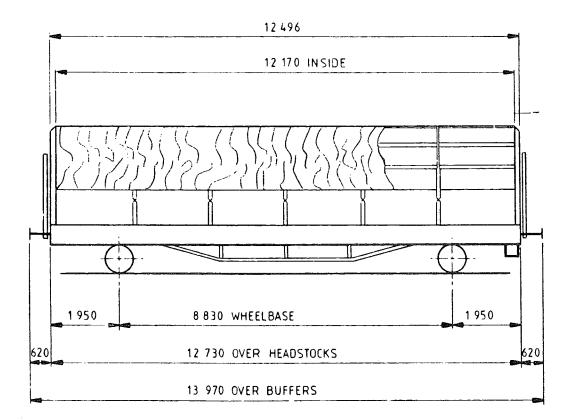
ISSUE 1

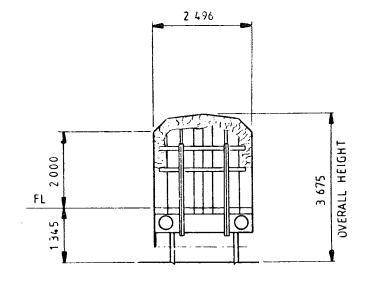
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OVERALL HEIGHT

401 GLW CAISSE MOBILE (SWAP BODY) FLAT

Γ		A	B	Τ	C	D			TOPS INFO	RMATION				
		16.5	t 20.	- 1-	4 · 5†		AARKND	OPERATING	SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
	5	16.5	120.	52	4•5t		CARKND	60 mile/h UP TO mile/h-ABOVE	40 tonne GLW	AB 10 t FORCE UP TO VB 11 t " 4 " AB 18 t FORCE ABOVE VB 19 t " "	24 t G L W	LENGTH 12	(GLW)	SHEET W 921





NOTE:- PROTOTYPE, EX DESIGN CODE ITE 407. DOMESTIC TRAFFIC ONLY.

TARE -	15·5 r
CAPACITY, WEIGHT-	24.5 t
CAPACITY, VOLUME-	59 m ³
FLOOR AREA -	29 45 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	465

BRAKE -	DUAL; SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDAULIC
WHEELS -	Ø 1000
JOURNALS -	Ø 130

TYPE -	Ufs
WAGON No	44 87 9195 000
BUILDER -	ATELIER BRETON
OWNER -	TRANSFESA-FRANCE

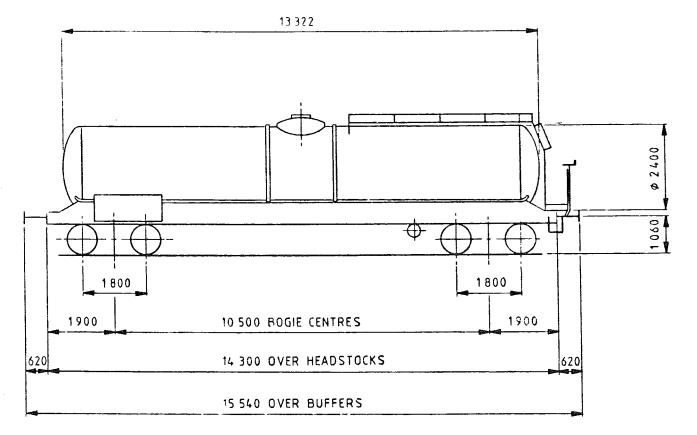
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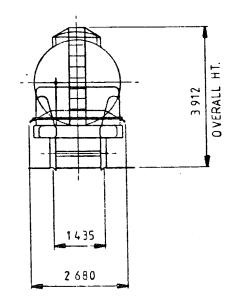
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

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80 t GLW. BOGIE TANK

Γ		A	E	T	C	D		TOPS IN	FORMATION			
	Ī	41.8	149	81	7·8†		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	S (41 .8	149	81	i7·8t		CARKND	60 mile/h UP TO 80 tonne GLW	AB 16 + FORCE UP TO	LENGTH	(GLW)	SHEET
1	20		00	· 0†			ΙĊΧΟ	mile/h ABOVE au tonne dev	AB 41 F FORCE ABOVE 43 T ULW.	5	0	W 930





ICE 539

TARE -	22·15 r
CAPACITY, WEIGHT-	57-85 t
CAPACITY, VOLUME-	58 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN, ARRGT, DRG, No.	- 102 709

BRAKE -	DUAL; PLATFORM & SIDE SCREW.
SUSPENSION	- Y 25 C S 2
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 590 + 340 HD.
WHEELS -	
JOURNALS -	

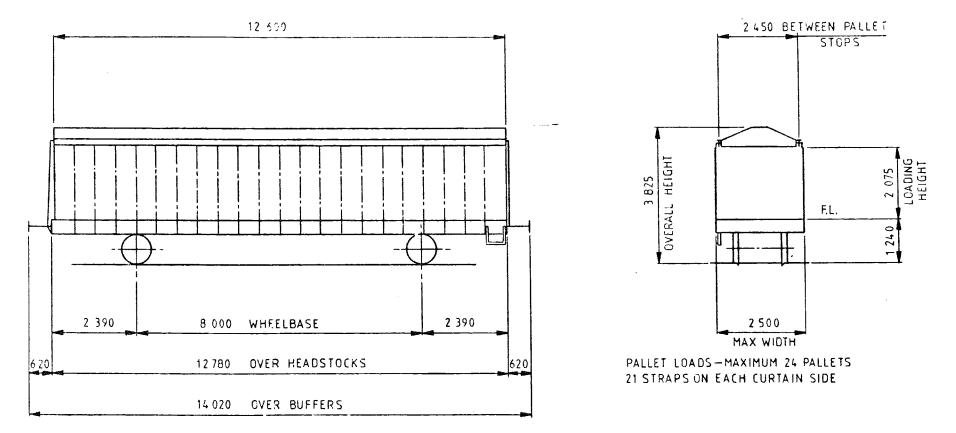
TYPE -	Zats (3)
WAGON No.	33 87 7899 003-009
BUILDER -	FAUVET GIREL
OWNER -	ERMEWA
	1001/15 4

ISSUE 1

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40† GLW CURTAIN-SIDED (TAUTLINER)

ſ		A	NT.	В	C	D		TOPS INF	ORMATION			
		18	•212	2.2.21	26•2†		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	S	18	·2†2	2.2.21	26.21		CARKND	60 mile/h UP TO 40 tonne GLW	AB 7 FORCE UP TO YB 5 T BORG "24" 22 T GLW	LENGTH	(GLW)	SHEET
							 IPXP	mile/h ABOVE 40 tonne GLW	AP 20 F FORCE ABOVE 22 T U.L.W.	12	6	W1208



TARE -	13-8t
CAPACITY, WEIGHT-	26.21
CAPACITY, VOLUME-	59 m ³
FLOOR AREA -	29.45m ²
MIN. CURVE -	60 m
GEN, ARRGT. DRG. No	465

BRAKE -	AIR. VACUUM: SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
EUFFERS -	HYDRAULIC
WHEELS -	Ø 1000
JOURNALS -	Ø 130

TYPE -	Hbfis
WAGON No	43 87 2 396 001-005
2441052	
BUILDER -	INGE TRANS
OWNER -	E.V.S. PARIS
	10.5115

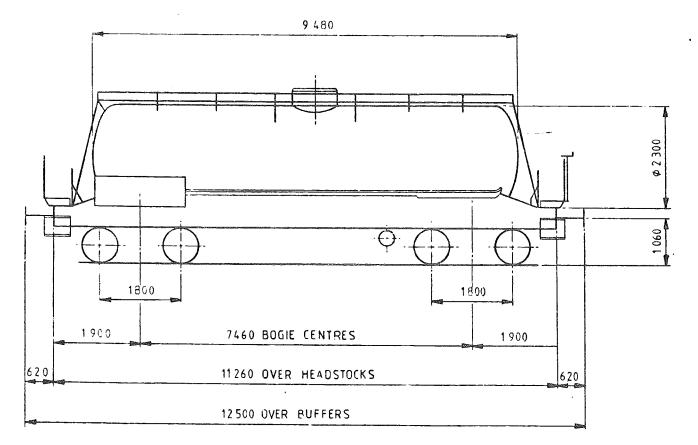
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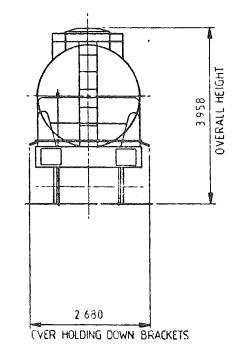
IPE 540

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

801 GLW BOGIE TANK

		A	E1	B2	Γc		·		TOPS INFO	RMA	TION		and the state of the second second second second second second second second second second second second second	1018-104-104-10-10-10-10-10-10-10-10-10-10-10-10-10-	
	4	0.21	42.7	52.2	t 60-2t	AARKND		OPERATING	SPEED		BRAKE FORCE	DATA	EXCESS	RA	DESIGN
	_	0.2 t	42.7	52.2	+60-21	CARKND	60	mile/h UP TO	00 targe CUM	13 t	FORCE UP TO	11 + 6114	LENGTH	(GLW)	SHEET
12	0			00.()	 ICAD	<u> </u>	mile/h-A36VE	80 tonne GLW	41 †	FORCE ABOVE	44†GLW	0	6	W1045





ICE 541

TARE -	12.81
CAPACITY, WEIGHT-	60.21
CAPACITY, VOLUME-	37.5m ³
FLOOR AREA -	
MIN. CURVE -	35m
GEN. ARRGT. DRG. No	103020

BRAKE -	AIR: SIDE & PLATFORM SCREW
SUSPENSION -	Y 25 (s2 or Y25 (st
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 450 × 340 HD
WHEELS -	ø 920
JOURNALS -	ø130

TYPE -	Zacfs (3)
WAGON No	33 87 7896 012-016
BUILDER -	FAUVET-GIREL
OWNER -	LOCATRANSPORTS
	ISSUE 1

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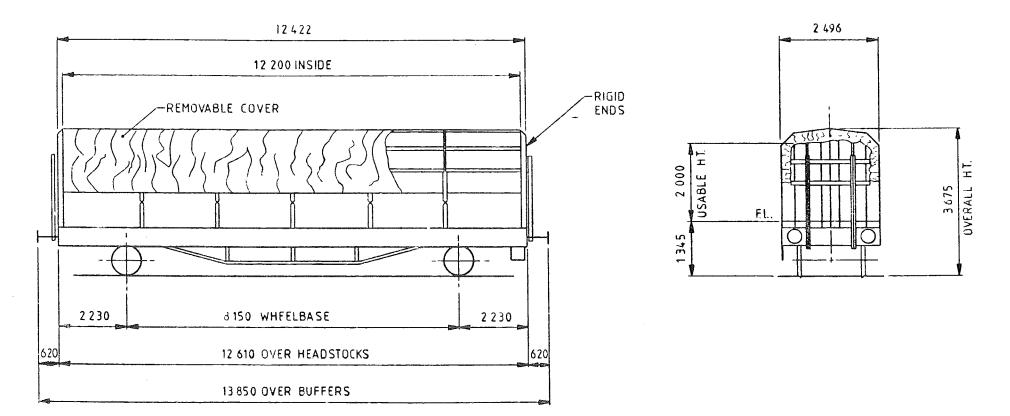
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ITE 542

40 + GLW CAISSE MOBILE (SWAP BODY) FLAT

ſ	A B C D	TOPS INF	ORMATION		
	1711 2111 2511 AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS RA	DESIGN
	S 1711 2511 2511 CARKND	75 mile/h UP TO	VB 11 t FORCE UP TO 24 t GLW	LENGTH (GLW)	SHEET
	SS 211t ITXP	mile/h ABOVE 40 tonne GLW	VARIABLE AIR BRAKE 10 76 + (1-269 + 1)	12 6	W997



TARE -	14 9 t
CAPACITY, WEIGHT-	25.1 1
CAPACITY, VOLUME-	59-28 m ³
FLOOR AREA -	29 64 m ²
MIN. CURVE -	50 m
GEN. ARRGT. DRG. No	- 546

BRAKE -	AIR VACUUM; SIDE LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C
BUFFERS -	HYDRAULIC
WHEELS -	Ø 1000
JOURNALS -	¢ 130

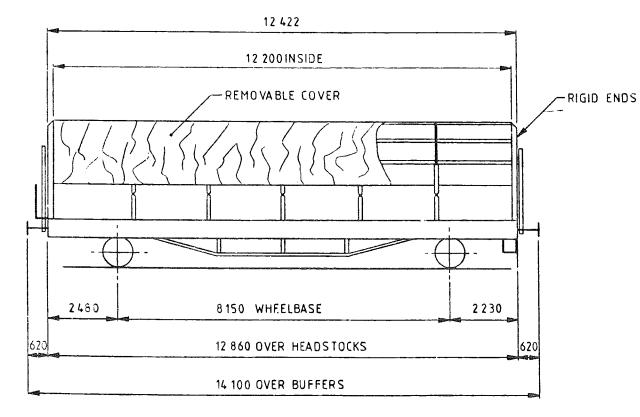
TYPE -	Utss
WAGON No.	- 43 87 9196 000 - 019
BUILDER -	ATELIER BRE FON
GWNER -	TRANSFESA - FRANCE
	(0.3)(10)

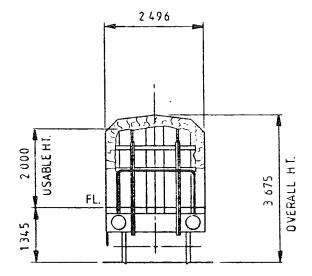
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40 + GLW. CAISSE MOBILE (SWAP BODY) FLAT

	A	8	C D				TOPS INFO	RMATION			
	16.9	120 91	24.91	AARKND		OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S	16.9	1 24 91	24·9†	CARKND	75	mile/h UP TO		VB. 11 FORCE UP TO 24 FOLW. 19 FORCE ABOVE 24 FOLW.	LENGTH	(GLW)	SHEET
SS	5	20 9	<u>+</u>	ITXI	2	mile/h ABOVE	40 tonne GLW	VARIABLE AIR BRAKE = - 10 76 + (1-262 + t)	13	6	W998





TARE -	15·1 t
CAPACITY, WEIGHT-	24.9 1
CAPACITY, VOLUME-	29.64 m ³
FLOOR AREA -	59.28 m ²
MIN. CURVE -	60 m
GEN. ARRGT, DRG, No	- 649

BRAKE -	AIR, VACUUM; PLATFORM SCREW
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 100 0
JOURNALS -	ø 130

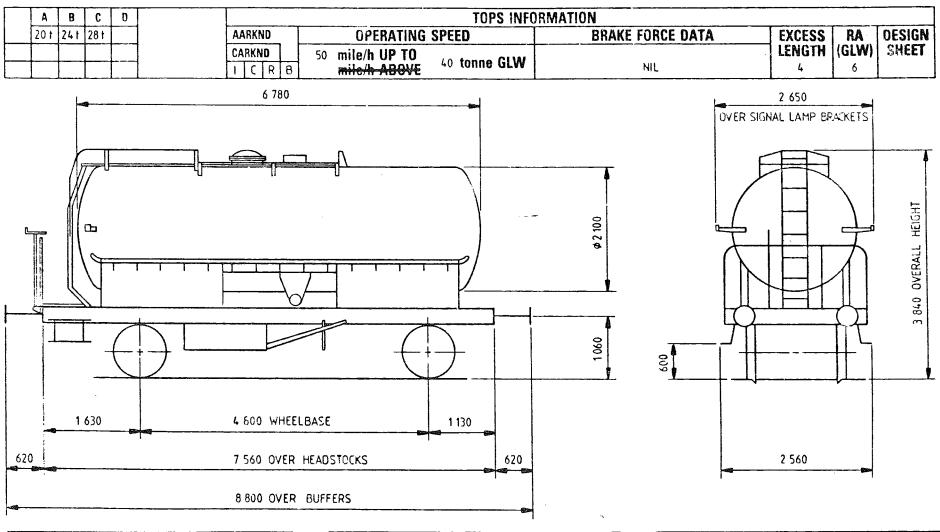
TYPE -	Utss	
WAGON No	43 87 9196 020 - 024	
BUILDER -	ATELIER BRETON	

ITE 543

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401 GLW TANK WAGON



TARE -	12 t
CAPACITY, WEIGHT-	28†
CAPACITY, VOLUME-	20m"; 200 hl
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 61594.01.00

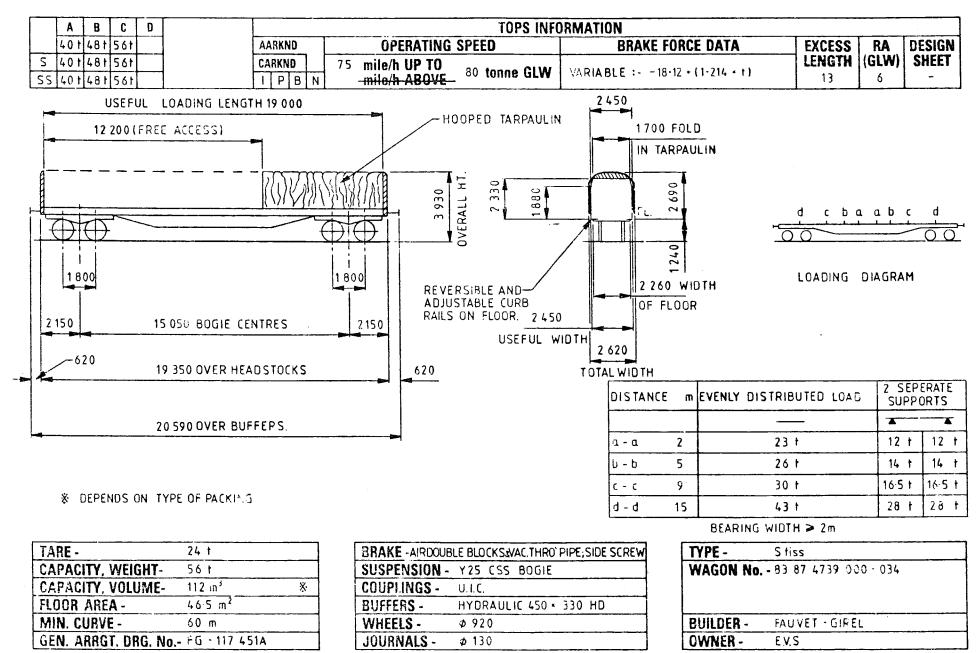
BRAKE - PIPED	(DUAL) ; SCREW & SIDE LEVER
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYRAULIC
WHEELS -	ø 1000
JOURNALS -	

TYPE -	Zef
WAGON No	21 80 7197 019-028
BUILDER -	LINKE HOFMANN BUSCH
OWNER -	V.T.G.
	ISSUE 1

ICE 544

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

80 + GLW "DEBACH VIT" CURTAIN-SIDED WAGON



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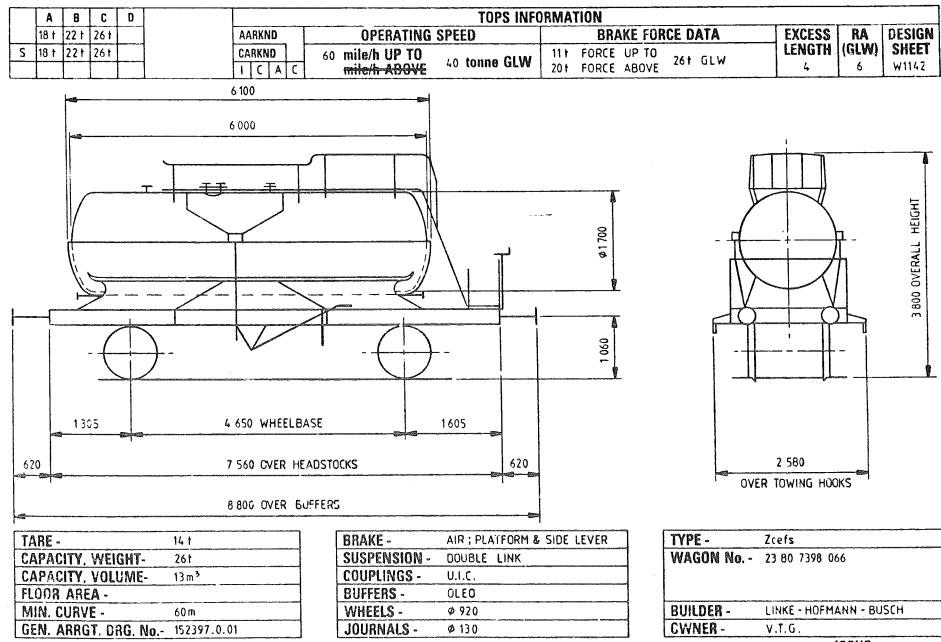
IPE 545

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

401 GLW TANK

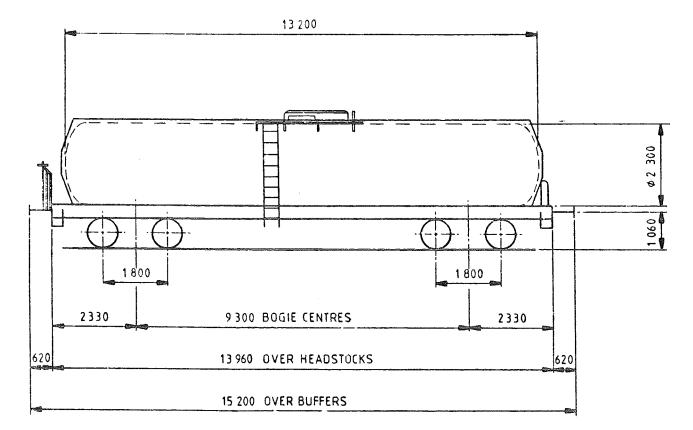
ICE 547

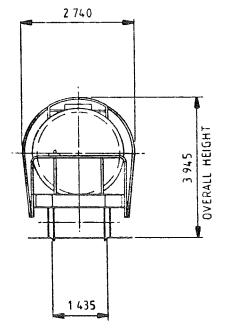
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80 GLW BOGIE TANK

	A	B		C	D		TOPS INFORMATION						
	32.2	t40-	SH4	8·5†		AARKND	OPERATING SI	PEED .	BRAKE FORCE DAT	A	EXCESS	RA	DESIGN
S 12(32·5	t 40- 00-	1	8-5t		CARKND	60 mile/h UP TO mile/h ABOVE	80 tonne GLW	22 t FORCE UP TO 42 t FORCE ABOVE	46† G L W		(GLW) 6	SHEET W 1041





TARE -	31-5 t
CAPACITY, WEIGHT-	48·5 t
CAPACITY, VOLUME-	52 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	0-333.01.0012

BRAKE -	AIR; PLATFORM & SIDE SCREW
SUSPENSION -	DB BOGIE BA6614
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 460 x 340
WHEELS -	Ø 920
JOURNALS -	Ø 130

ТҮРЕ -	Zacefkks (3)					
WAGON No	33 80 7998 000-004					
a source from the second second second second second second second second second second second second second s	gegetable-Banchillabaggiga-an-cancellineanide					
BUILDER -	WAGGON UNION					
BUILDER -	WAGGON UNION					

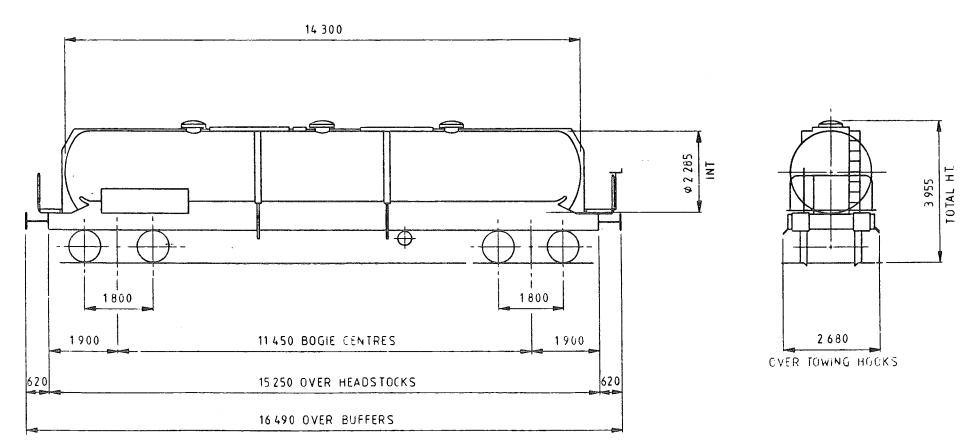
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80 t G.L.W. BOGIE TANK WAGON

	Τ	A	8	C	D	 TOPS INFORMATION							
	3	4 9t	42.91	50.91		AARKND		OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S 12(-		42·9†)0 0	50)† †		 CARKND	60	mile/h UP TO mile/h ABOVE	80 tonne GLW	21 FORCE UP TO 41 FORCE ABOVE 44 FGLW	LENGTH 6	(GLW) 6	SHEET W1019



TARE -	29 t
CAPACITY, WEIGHT-	51 ł
CAPACITY, VOLUME-	57 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	- 102880

BRAKE - AIR & V	AC. THRO' PIPE , PLATFORM & SIDE SCREV
SUSPENSION -	Y25 CS2
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 920
JOURNALS -	Ø 130

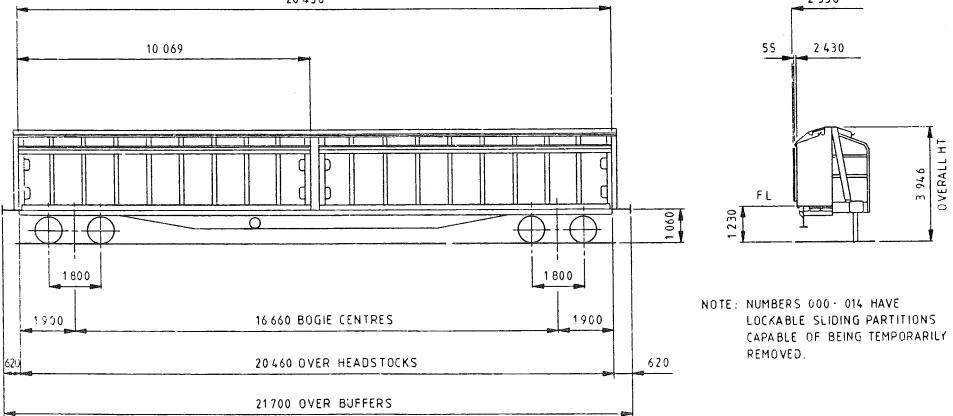
TYPE -	Zacefs (3)				
WAGON No.	- 33 87 7996 040 - 045				
BUILDER -	FAUVET-GIREL				
OWNER -	METAUX - SPECIAUX S.A.				

ISSUE 1

ICE 549

80 t GLW BOGIE VAN

TOPS INFORMATION OPERATING SPEED BRAKE FORCE DATA AARKND **EXCESS** LENGTH (GLW) SHEET CARKND 19 + FORCE UP TO 43 + FORCE ABOVE 60 mile/h UP TO 51 t GLW 80 tonne GLW mile/h ABOVE IPA В 13 20438 2 5 5 6



TARE -	27 t
CAPACITY, WEIGHT-	53 t
CAPACITY, VOLUME-	119 m ³
FLOOR AREA -	50 m ²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	A 2102.01.001

BRAKE -	AIR; SIDE SCREW
SUSPENSION -	TALBOT BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 600 x 370
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Habfis; Habfis (4)
WAGON No	83 80 2797 700 - 734
	83 30 2798 000 - 014
BUILDER -	WAGGON-UNION
OWNER -	CARGO WAGGON
	10010

DESIGN

W 1056

IPE 551

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S

120

В

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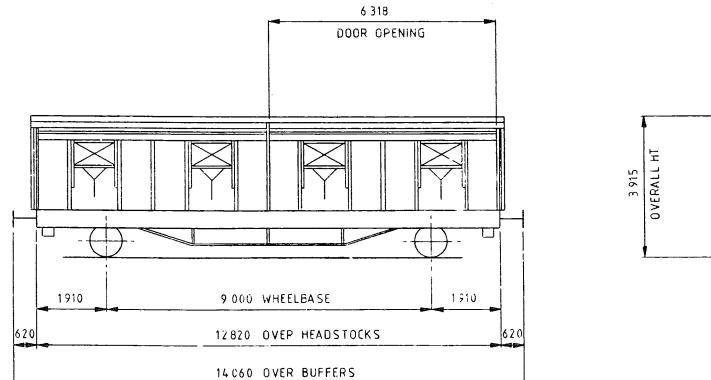
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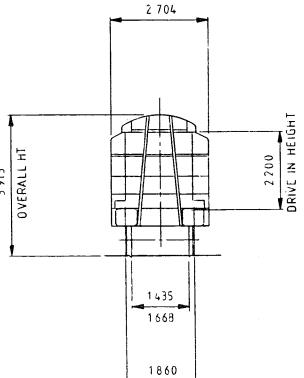
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C D

40 FGLW VAN

A B C D	TOPS INFO	DRMATION			
19 t 23 t 27 t	KND OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S 19 t 23 t 27 t CAR		AB 7 + FORCE UP TO 7 VB 14	LENGTH	(GLW)	SHEET
120 00 0t	T X M 30 mile/h ABOVE 13 tonne GLW	AB 20 + FORCE ABOVE (27 T ULW	12	6	W 1129





TARE -	13 t
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME-	73 m ³
FLOOR AREA -	33 m ²
MIN. CURVE -	60 m
GEN. ARRGT, DRG. No	1.125.01.00.27

BRAKE -	DUAL; SIDE SCREW
SUSPENSION -	DOUBLE LINK, 2 STAGE
COUPLINGS -	UHC
BUFFERS -	HYDRAULIC
WHEELS -	Ø 1000
JOURNALS -	Ø 130

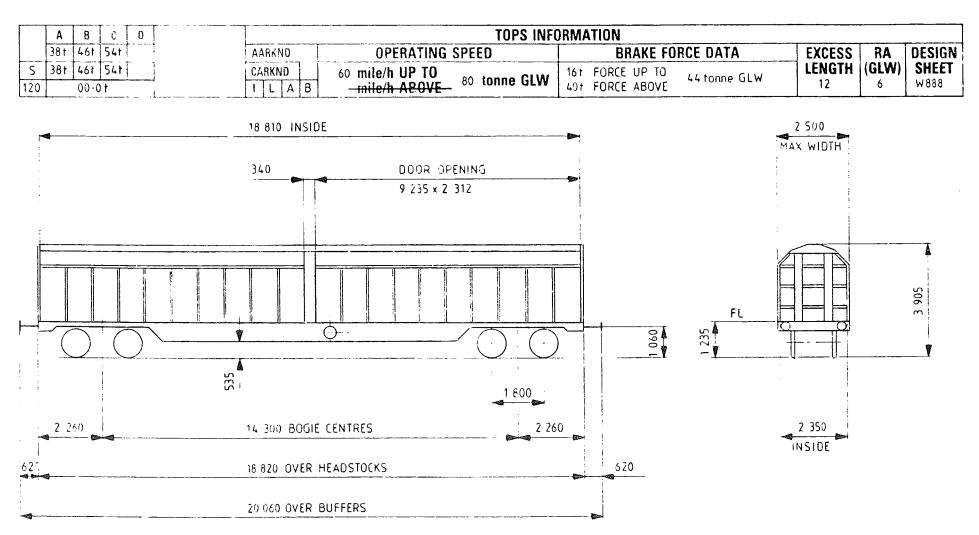
TYPE -	Hbfis
WAGON No.	- 43 80 2396 002 - 101
BUILDER -	WAGGON UNION
OWNER -	TRANSFESA

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801 GLW BOGIE VAN



TARE -	26 t
CAPACITY, WEIGHT-	54 t
CAPACITY, VOLUME-	90 5m ³ (UTILISED)
FLOOR AREA -	47 m^2
MIN. CURVE -	्र ्रे ग।
GEN. ARRGT. DRG. No	÷9 80 7

BRAKE -	AIR ; SIDE SCREW
SUSPENSION -	Y 25 CS2 BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø920
JOURNALS -	⊅1 <u>3</u> 0

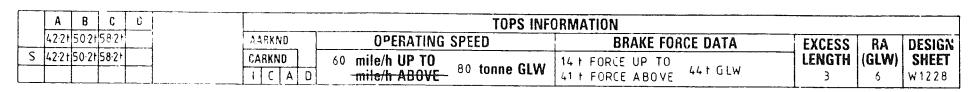
TYPE -	Habfis
WAGON N	0 31 83 2797))) - 159
BUILDER -	

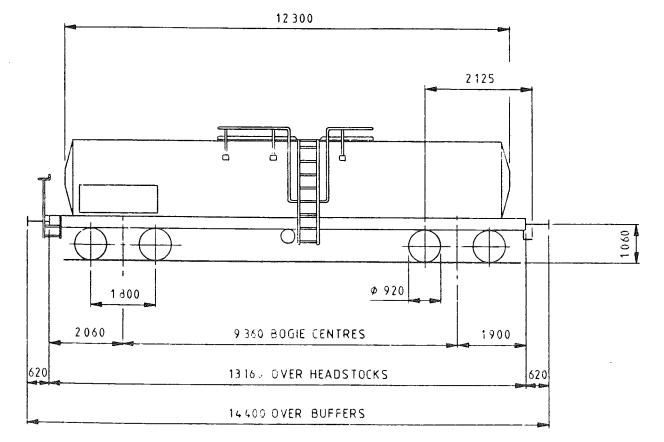
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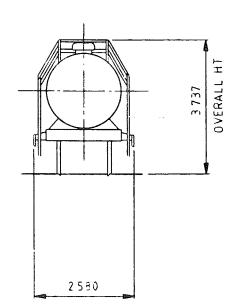
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ILE 553

80 + GLW BOGIE TANK WAGON







TARE -	21 8 t
CAPACITY, WEIGHT-	58 2 t
CAPACITY, VOLUME-	37 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	- 0 52413/0/01

BRAKE -	AIR; PLATFORM & SIDE SCREW
SUSPENSION -	DB BOGIE
COUPLINGS -	U.I C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zafgkks (3)
WAGON No.	- 33 70 7895 150 - 154
BUILDER -	LINKE HOFMANN, BUSCH
OWNER -	VTG.
	ISSUE 1

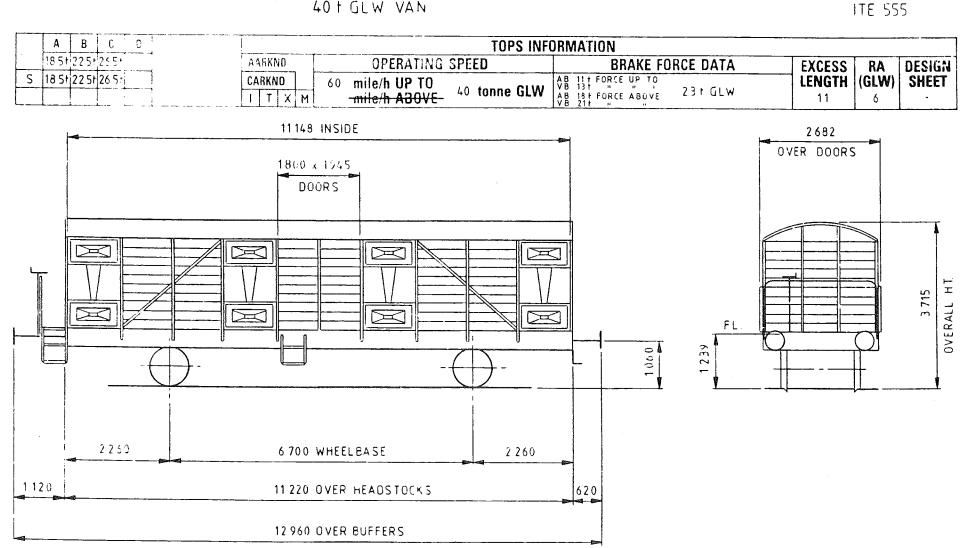
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ICE 554

40 + GLW VAN

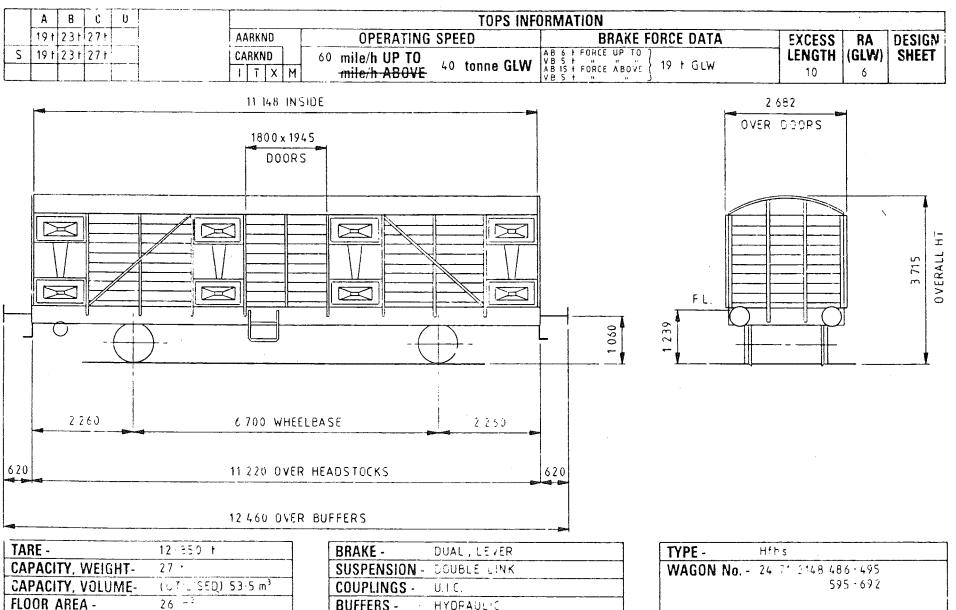


TARE -	13.11
CAPACITY, WEIGHT-	26 5 t
CAPACITY, VOLUME-	(UTILISED) 53.5 m ³
FLOOR AREA -	26m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	. 04

BRAKE -	DUAL; LEVER & PLATFORM SCREW
SUSPENSION	- DOUBLE LINK
COUPLINGS -	UI.C.
BUFFERS -	HYDRAULIC
WHEELS -	Þ1000
JOURNALS -	⊅ 130

TYPE -	Hfhs
WAGON No.	- 24 71 2148 496 - 594
BUILDER -	LINKE, HOFMANN, BUSCH
OWNER -	TRANSFESA

40 t GLW VAN



GEN. ARRGT, DRG, No.- 04⁴, 06^B

60 -

MIN. CURVE -

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LINKE HOFM	ANN BUSCH
TRANSFESA	
	ISSUE 1

ITE S56

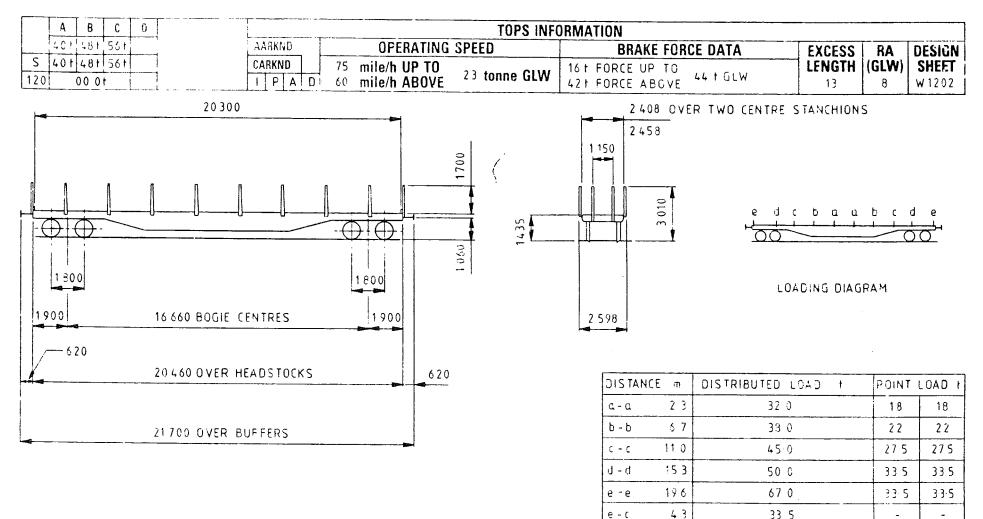
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BUILDER -

OWNER -

90 + GLW FLAT WAGON

IPE 557



TARE -	23-94 t
CAPACITY, WEIGHT-	56 t
CAPACITY, VOLUME-	
FLOOR AREA -	4.65 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 0-251 01.002

BRAKE -	AIR; SIDE SCREW
SUSPENSION -	DB BCGIE 665/WU 83
COUPLINGS -	UIC.
BUFFERS -	HYDRAULIC 350 x 600
WHEELS -	¢ 920
JOURNALS -	¢ 130

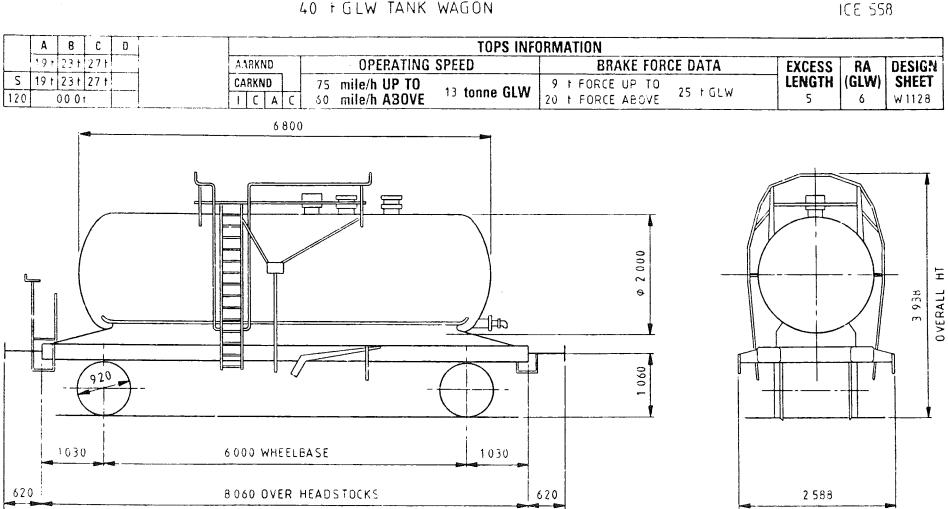
TYPE -	Sfs (1)
WAGON No.	- 33 80 4747000 - 049
BUILDER -	WACCON UNION
BUILDER - OWNER -	WACION UNION CARGO WAGGON

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40 FGLW TANK WAGON



OVER TOWING HOOKS

TARE -	13 t
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	- К512 07,00

9300 OVER BUFFERS

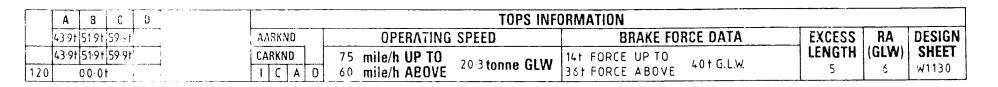
BRAKE -	AIR; LEVER & PLATFORM SCREW
SUSPENSION	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 920
JOURNALS -	ø 130

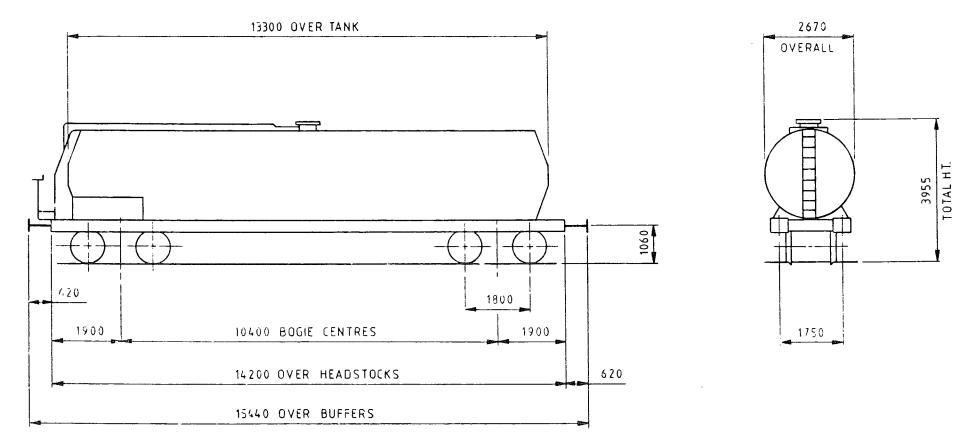
TYPE -	Zcefs (3)
WAGON No	24 80 7497 000 - 009
BUILDER -	GRAAF ELZE / LEINE
OWNER -	VIG

ISSUE 1

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TARE -	20·3 t
CAPACITY, WEIGHT-	59·9 t
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	
MIN. CURVE -	б0 m
GEN. ARRGT. DRG. No.	- 3521

BRAKE -	AIR; PLATFORM & SIDE SCREW.
SUSPENSION	- Y 25 C S2
COUPLINGS -	U I.C.
BUFFERS -	HYDRAULIC 450 × 340 HD.
WHEELS -	\$920
JOURNALS -	Ø130

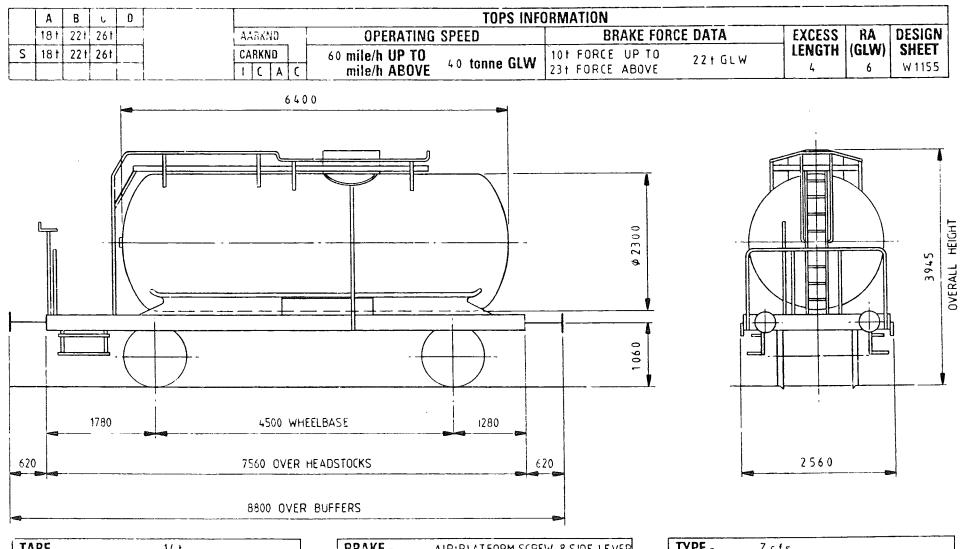
TYPE -	Zacets
WAGON No.	33 87 7996 046 & 047
BUILDER -	SIMOTRA
OWNER -	SIMOTRA

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ICE 560

2 AXLE 401 GLW TANK WAGON



TARE -	141
CAPACITY, WEIGHT-	261
CAPACITY, VOLUME-	24m ³
FLOOR AREA -	
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	W2018

BRAKE -	AIR: PLATFORM SCREW & SIDE LEVER
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø370
WHEELS -	Ø1000
JOURNALS -	Ø 130

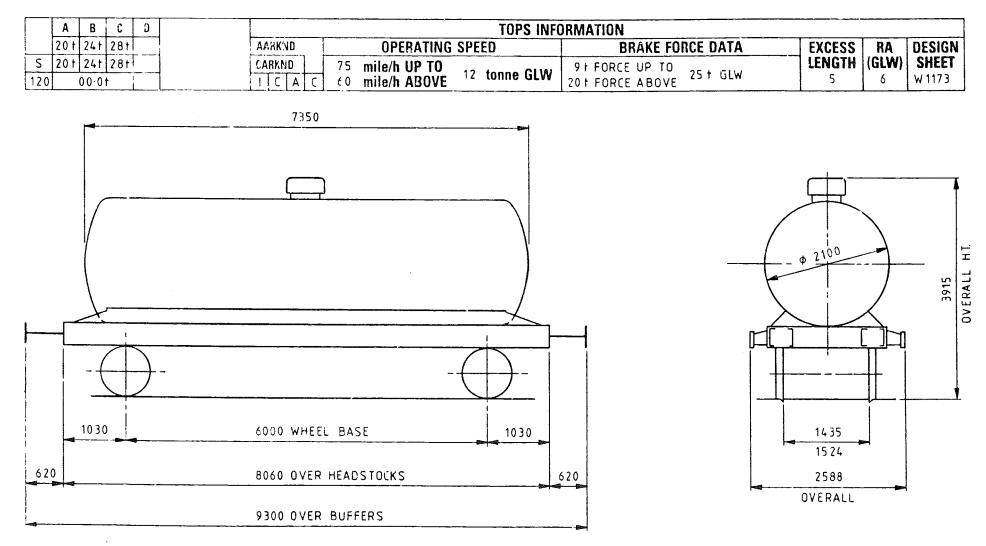
TYPE -	Zcfs
WAGON No.	- 2380 7391 058 & 059
BUILDER -	FRANZ KAMINSKI
OWNER -	VTG

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TARE -	12†
CAPACITY, WEIGHT-	28†
CAPACITY, VOLUME-	24m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- 3513 83

BRAKE -	AIR, BLOCK; LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 920
JOURNALS -	Ø 130

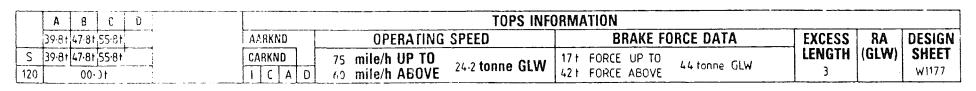
TYPE -	Zefs (3)	
WAGON No	24 80 7495 000-009	
BUILDER -	GRAFF ELZE / LEINE	
OWNER -	VTG.	

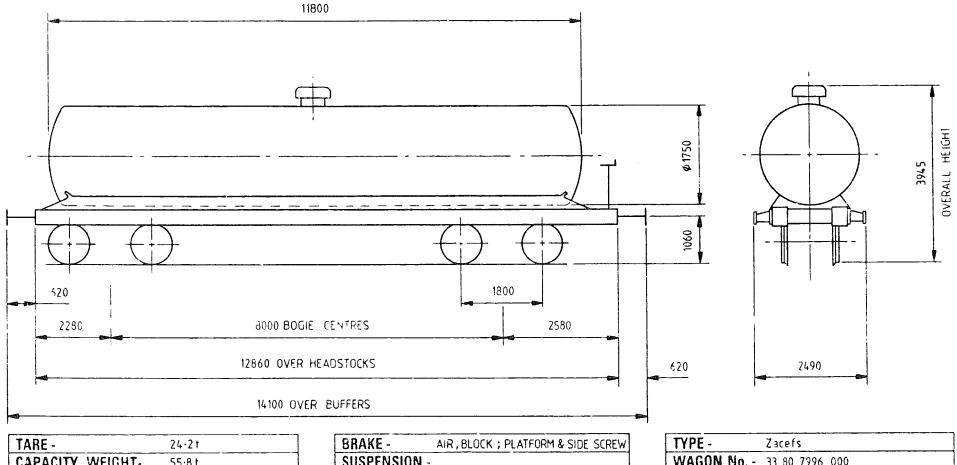
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ICE 564

80 + GLW BOGIE TANK WAGON





IAN -	24 21
CAPACITY, WEIGHT-	55-81
CAPACITY, VOLUME-	27 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	4630-81

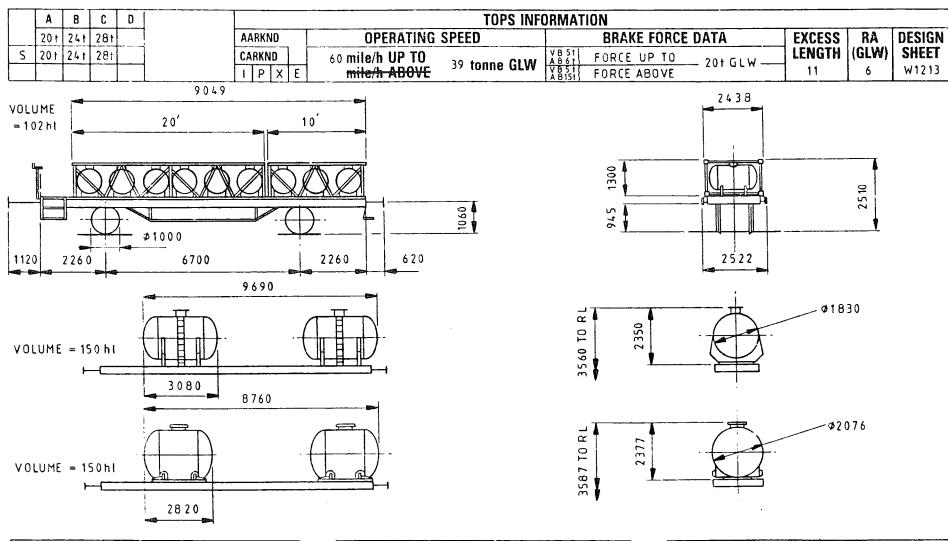
BRAKE -	AIR, BLOCK ; PLATFORM & SIDE SCREW
SUSPENSION	-
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 920
JOURNALS -	¢ 130

TYPE -	Zacefs
WAGON No	33 80 7996 000
BUILDER -	LINKE - HOFMANN - BUSCH
OWNER -	V.T.G.
	ISSUE 1

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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

2 AXLE CONTAINER FLAT



TARE -	11 t
CAPACITY, WEIGHT-	28t
CAPACITY, VOLUME-	SEE ABOVE
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	67 03 100

BRAKE -	DUALISIDE LEVER & PLATFORM SCREW
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø460
WHEELS -	2 1000
JOURNALS -	¢130

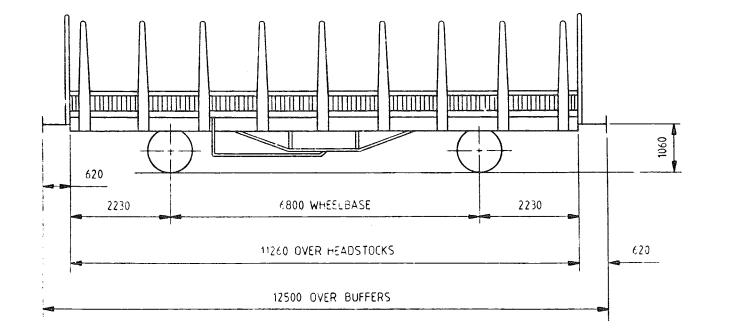
TYPE -	Ufs
WAGON No.	- 43 80 9195 000 & 001
BUILDER -	
BUILDER - OWNER -	SCHERING AG

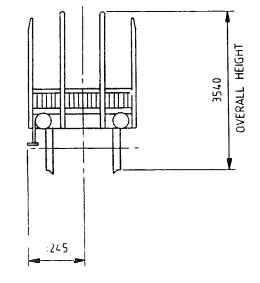
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IPE 566

2 AXLE 401 GLW LOWSIDED OPEN

	1	4	B	С	0			TOPS INFORMATION							
	19.		23·5ł	27·5†		1	AARKND		OPERATING	SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
• -				27.51			CARKND	A	60 mile/h UP TO	40 tonne GLW	5† FORCE UP TO 18† FORCE ABOVE	23 tonne GLW	LENGTH	(GLW) 6	SHEET





TARE -	12 t
CAPACITY, WEIGHT-	27·5†
CAPACITY, VOLUME-	
FLOOR AREA -	26·85m²
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	2018.01.1

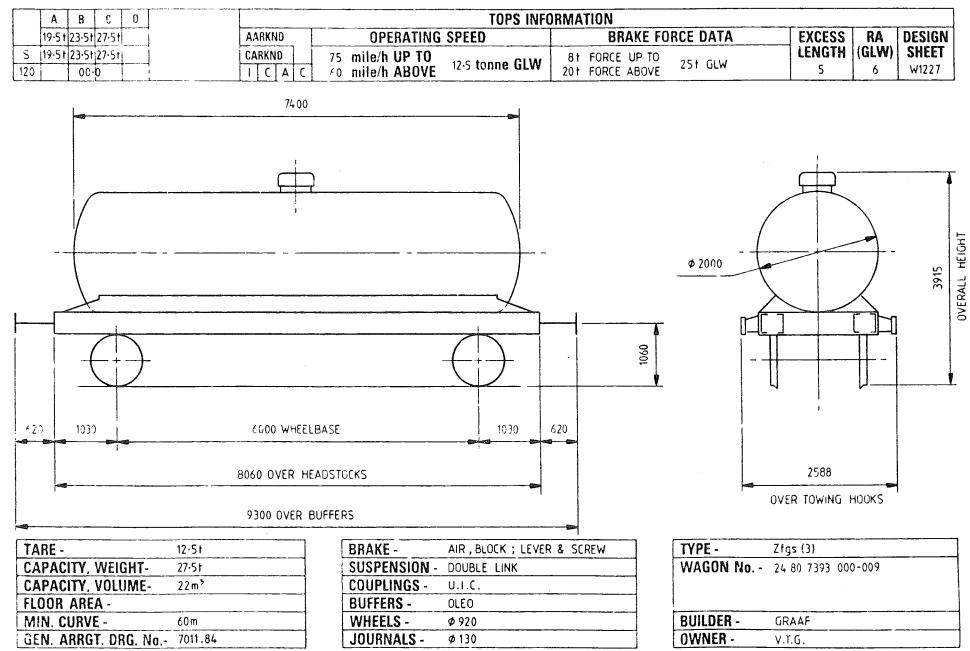
BRAKE -	AIR, VAC THRO' PIPE; SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 1000
JOURNALS -	ø 130

TYPE -	Lfms
WAGON No	21 80 4142000 - 024
BUILDER -	

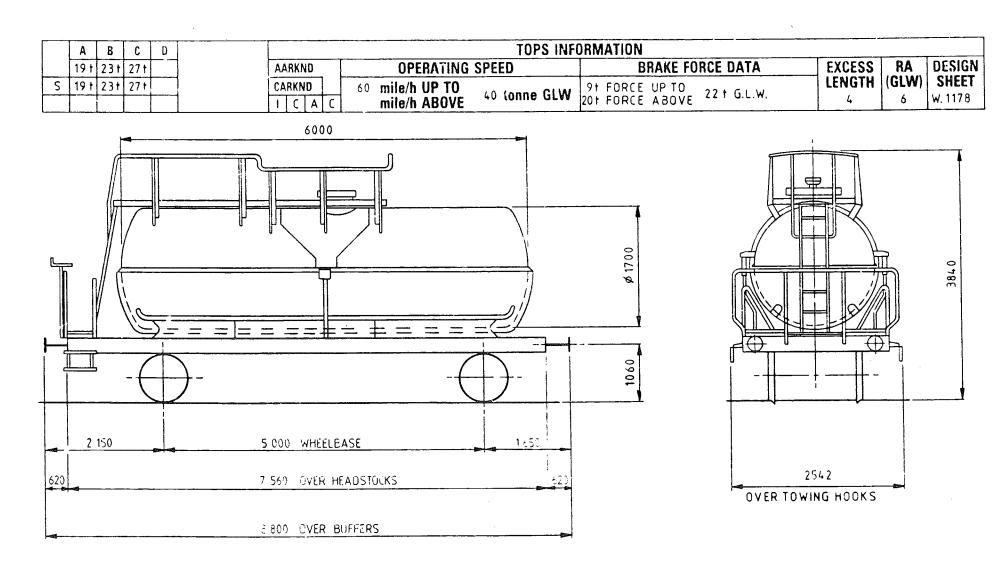
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IFE 568

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ICE 571



TARE -	13†
CAPACITY, WEIGHT-	271
CAPACITY, VOLUME-	13 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	-W2024

BRAKE -	AIR BLOCK; PLATFORM & SIDE LEVER
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRALLIC \$370 HEAD
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zcefs
WAGON No.	- 23 80 7398 077
BUILDER -	FRANZ KAMINSKI
DUILDEN -	
OWNER -	V.T.G.

ICE 572

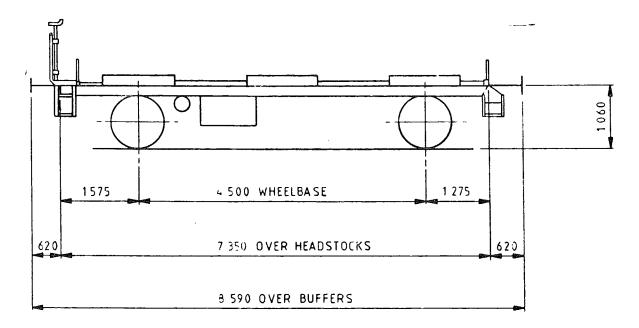
30 t GLW CONTAINER FLAT

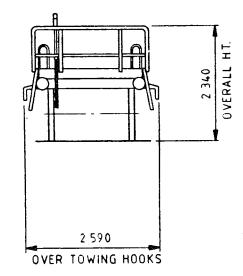
IPE 573

		Α	8	C	D		TOPS INFORMATION				
L		20 1	20 t	20 t		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS		ESIGN
	5	201	201	201		CARKND	60 mile/h UP TO mile/h ABOVE 30 tonne GLW	8 T FORCE UP TO 17 T FORCE ABOVE 18 T GLW	LENGTH (• •	SHEET 1356

NOTE

FOR THE CONVEYANCE OF ALUMINIUM ALKYLS IN 2 CONTAINERS OF 9 300 Kg EACH OR 6 CONTAINERS OF 2 300 Kg EACH OR 6 CONTAINERS OF 1 300 Kg EACH





TARE -	10 t
CAPACITY, WEIGHT-	20 t
CAPACITY, VOLUME-	
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	12.0 '097

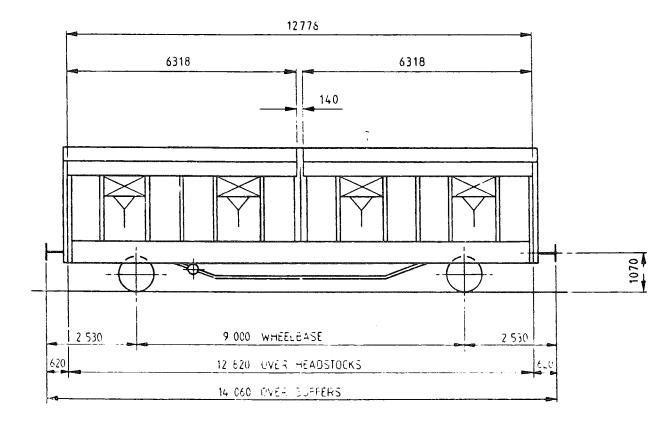
BRAKE -	AIR, BLOCK, VAC THRO' PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø400 HD.
WHEELS -	Ø 1000
JOURNALS -	Ø 130

TYPE -	Lfgkkmms
WAGON No	23874420 000
BUILDER -	FAUVET - GIREL
OWNER -	LA SOCIETE ETHYL

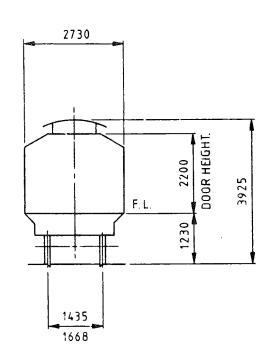
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		A	В	C	D		TOPS INFORMATION							
	18	3·4t	22.4	126.4	t	AARKND	OPERATING	SPEED		BRAKE FORCE	DATA	EXCESS	RA	DESIGN
S	18	3.41	22.4	t 26·4	.t	CARKND	75 mile/h UP TO	14 tonne GLW	Y8 7+ A8 91	FORCE UP TO	21 10 104	LENGTH	(GLW)	SHEET
12(0		00.	0		1 T X N	60 mile/h ABOVE	14 tonne GLW	V B 15 † 4 B 21 †	FORCE ABOVE	24 t G.L.W.	12	6	W1234



.



TARE -	13·6 t	
CAPACITY, WEIGHT-	26 4t	
CAPACITY, VOLUME-	744 m ³	
FLOOR AREA -	33·47 m ²	
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No		

BRAKE -	AIR VACUUM; SIDE SCREW		
SUSPENSION	V - DOUBLE LINK		
COUPLINGS -	U.I.C.		
BUFFERS -	HYDRAULIC		
WHEELS -	Ø 1000		
JOURNALS -	Ø 130		

TYPE -	Hbfis
WAGON No.	- 24 71 2396 000 199
3UILDER -	TAFESASOCIEDAD ANONIMA
BUILDER - OWNER -	TAFESASOCIEDAD ANONIMA TRANSFESA

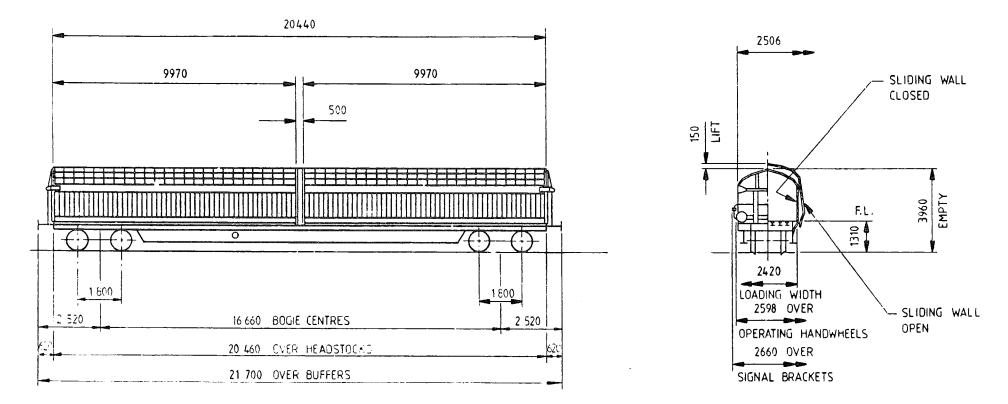
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4 AXLE SLIDING WALL VAN

IPE 576

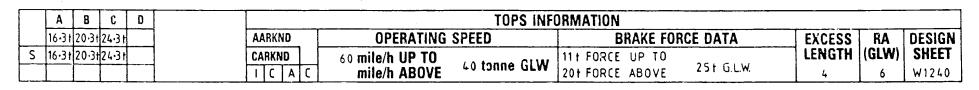
	L	A	В	C	D		TOPS INFORMATION					
	13	38 t	46 t	54 t		AARKND	OPERATING	SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S]3	33 t	46 t	54 t		CARKND	60 mile/h UP TO	80 tanne GLW	20+ FORCE UP TO ER HORDE CIVI	LENGTH	(GLW)	SHEET
120)	<u> </u>	0	0.0		IPAB	<u> </u>	80 tanne GLW	42 t FORCE ABOVE 53 tonne GLW	13	6	W1235

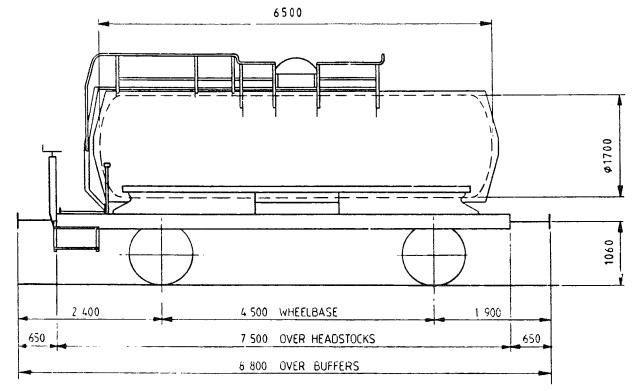


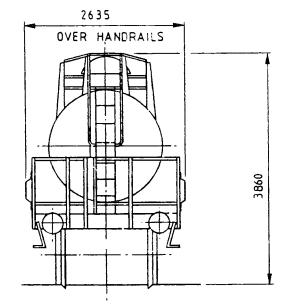
TARE -	28·5t
CAPACITY, WEIGHT-	51-5+
CAPACITY, VOLUME-	100 m ³
FLOOR AREA -	49.27 m ²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	- 9AZ - 135,0141

BRAKE -	AIR BLOCK ; SIDE SCREW
SUSPENSION -	WU 83.1 BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 560 + 340 H.D.
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Sifs					
WAGON No.	83 80 4746 000					
BUILDER -	WAGGON UNION					
BUILDER - OWNER -	WAGGON UNION E.V.A.					





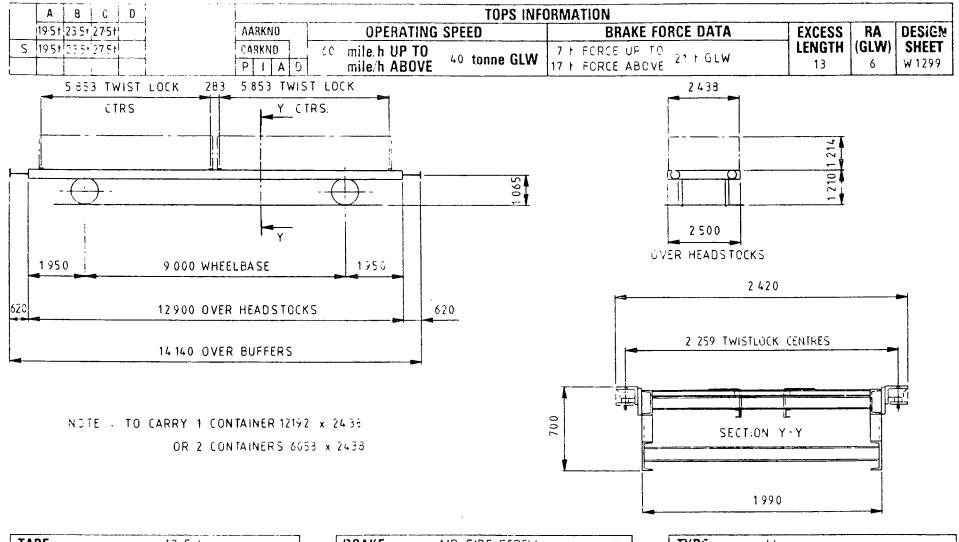


TARE -	15·7 t
CAPACITY, WEIGHT-	24.31
CAPACITY, VOLUME-	13-4 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	W

BRAKE -AIR E	BLOCK ; LEVER & PLATFORM SCREW				
SUSPENSION - DOUBLE LINK					
COUPLINGS -	U.I.C.				
BUFFERS -	HYDRAUL'C				
WHEELS -	Ø1000				
JOURNALS -	Ø130				

TYPE -	Zcfkks.					
WAGON No.	- 2380 7491 013-017					
	EDANZ KAMINSKI					
BUILDE R -	FRANZ KAMINSKI					
BUILDER - CWNER -	FRANZ KAMINSKI VTG HAMBURG					

ICE 577



TARE -	12-5 t
CAPACITY, WEIGHT-	27·5 t
CAPACITY, VOLUME-	
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	,- 3563

BRAKE -	AIR; SIDE SCREW
SUSPENSION -	BRUNINGHAUS DOUBLE LINK
COUPLINGS -	UIC.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 1000
JOURNALS -	Ø 130

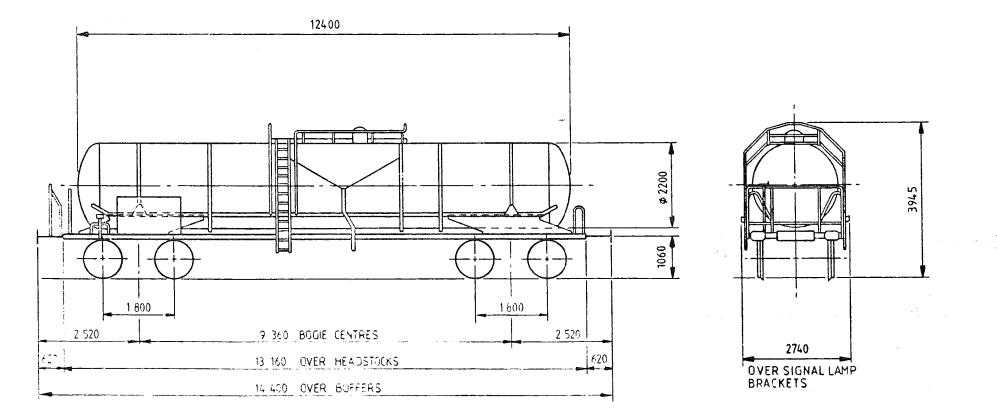
TYPE -	Lfgs
WAGON No	- 23 70 4424 001-005
BUILDER -	ATELIERS DE JOIGNY
BUILDER - OWNER -	ATELIERS DE JOIGNY S.T.S.

IPE 578

901. GLW BOGIE TANK WAGON

ICE 579

	A B C D		TOPS INFORMATION						
90	41-8 t 49-8t 57-8t 67-8t	AARKND	AARKND OPERATING SPEED BRAKE FORCE DATA EXC				DESIGN		
S	41-8 t 49-8t 57-8t 57-8t	CARKND	CARKND 75 mile/h UP TO 202 terms Olive 16t FORCE UP TO 54 terms CIVE				SHEET		
120	0.00	ICAD	60 mile/h ABOVE 22.2 tonne GLW	431 FORCE ABOVE 54 tonne GLW	3	10	W1287		



TARE-	22.21
CAPACITY, WEIGHT-	67.8†
CAPACITY, VOLUME-	45 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	1 12103.0.01

BRAKE -	AIR BLOCK ; SCREW
SUSPENSION -	L.H.B. 78 BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 340 + 450
WHEELS -	Ø 920
JOURNALS -	Ø 130

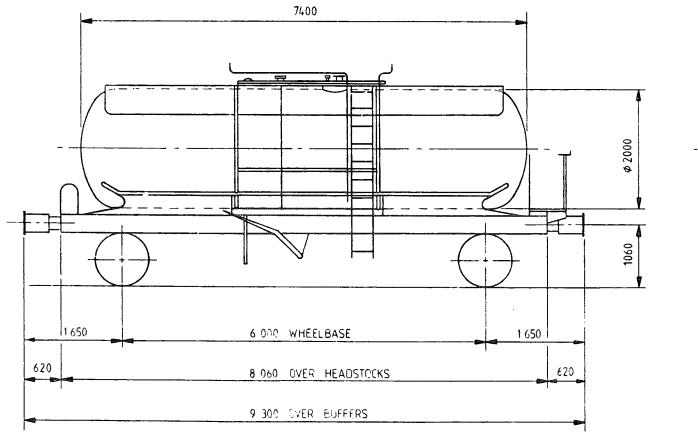
TYPE -	Zacfs (3)
WAGON No	34 80 7896 000 - 019
BUILDER -	LINKE - HOFMANN - BUSCH
OWNER -	V.T.G.
	LOONE

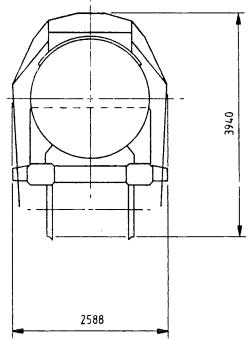
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2 AXLE 40 T GLW TANK WAGON

		A	В	C	D	TOPS INFORMATION							
	Ĺ	20 ·7	t 24·7†	28•7†		 AARKND	AARKND OPERATING SPEED BRAKE FORCE DATA				EXCESS	RA	DESIGN
S		20.7	t 24•7 t	28·7t		CARKND	75 mile/h UP TO 12 tones Out		8 + FORCE UP TO	27 toppo CIVI	LENGTH	(GLW)	SHEET
12	0		0.	00		ICAC	60 mile/h ABOVE	12 tonne GLW	221 FORCE ABOVE	27 tonne GLW	5	6	W1286





TARE -	11-31
CAPACITY, WEIGHT-	28-5 t
CAPACITY, VOLUME-	22 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	5911-84

BRAKE -	AIR BLOCK ; LEVER & SIDESCREW
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAJLIC
WHEELS -	Ø 920
JOURNALS -	Ø 130

TYPE -	Zcfs (3)
WAGON No.	- 23 80 /495 010-019
	GRAAFE KG
BUILDER - OWNER -	GRAAFF KG

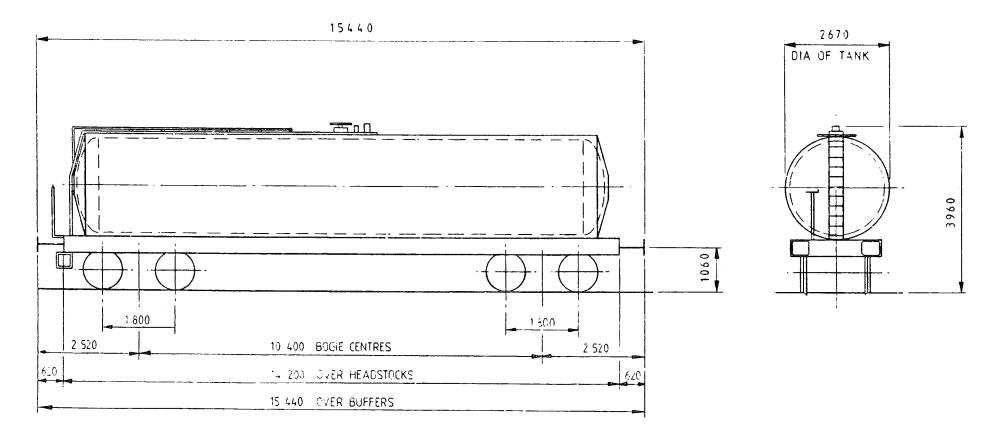
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ICE 580

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801 GLW BOGIE TANK WAGON

	A	B	C	D		TOPS INFORMATION						
	437	51.7 i	59•7t		AARKND	AARKND OPERATING SPEED BRAKE FORCE DAT				EXCESS	RA	DESIGN
S	43.7	51.71	59•7 t		CARKND	60 mile/h UP TO		15 FORCE UP TO		LENGTH	(GLW)	SHEET
						mile/h ABOVE	80 tonne GLW	381 FORCE ABOVE	48 + G.L.W	5	6	W1319



TARE -	20·3†
CAPACITY, WEIGHT-	59.7 t
CAPACITY, VOLUME-	60 m ³
FLOOR AREA -	-
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	2.4.0.639 & 640

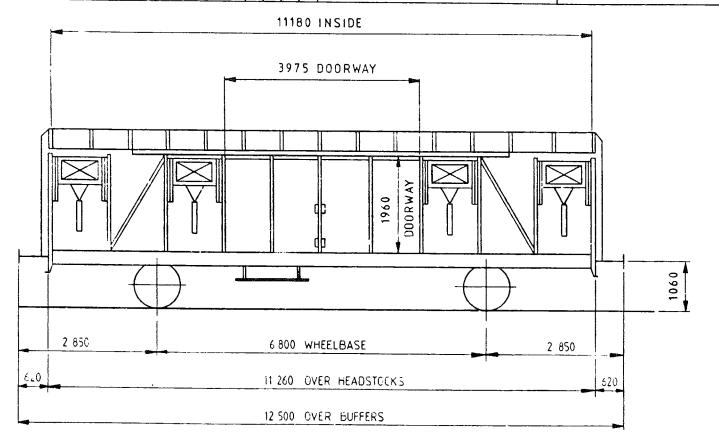
BRAKE - AIR B	LOCK; PLATFORM & SIDE SCREW
SUSPENSION	-Y25 (S2
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC, 450 - 340 HD
WHEELS -	Ø920
JOURNALS -	ø130

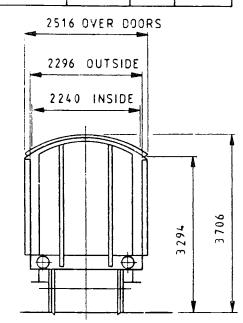
ТҮРЕ -	Zacefs (3)
WAGON No.	- 3387 7996 048-053
BUILDER -	C.F. M.F.
BUILDER -	C.F.M.F.

ICE 582

2 AXLE 331 GLW VAN

A B C D		TOPS INF	ORMATION]
19.51 211 211	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S 19.51 211 211	CARKND	60 mile/h UP TO mile/h APOVE 33 tonne GLW	ST FORCE UP TO 2/1 CIV		(GLW)	SHEET
	IMBC	mile/h ABOVE 33 tonne GLW	181 FORCE ABOVE 241 U.L.W.	10	4	-





TARE -	12 t
CAPACITY, WEIGHT-	211
CAPACITY, VOLUME-	49 m ³
FLOOR AREA -	25 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	1091.01.1

BRAKE -	AIR BLOCK : SIDE LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø1000
JOURNALS -	Ø130

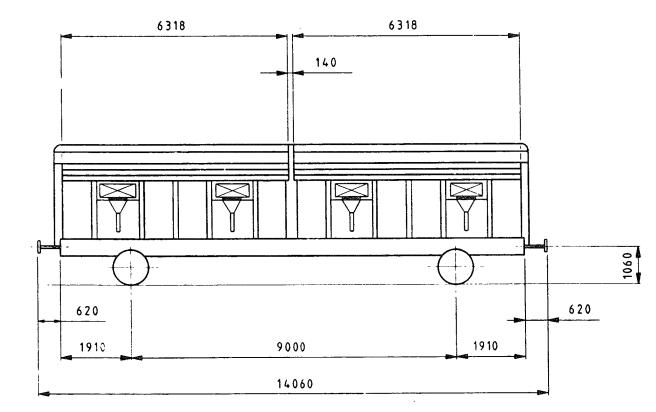
TYPE -	Hfkks
WAGON No	21 80 2191 001,019,031,
	049,055,085,088,095.
BUILDER -	H. FUCHS WAGGONFABRIK AG.
OWNER -	D B.
	100115 4

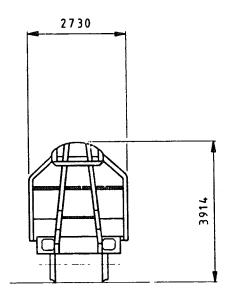
2 AXLE 401 G.L.W. VAN

ITE 584

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		A	B	C	D		TOPS IN	FORMATION			
	Ī	19t	231	27 t		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	s	19 t	231	27 t		CARKND	60 mile/h UP TO	AB 9 FORCE UP TO 24 tonne G.L.W.		(GLW)	SHEET
12	20		00	0		ITXM	mile/h ABOVE 40 tonne GLV	AB 15 FORCE ABOVE	12	6	W1379





13 t
26·4 t
744 m ³
33 47 m ²
60 m
00.103.00.000

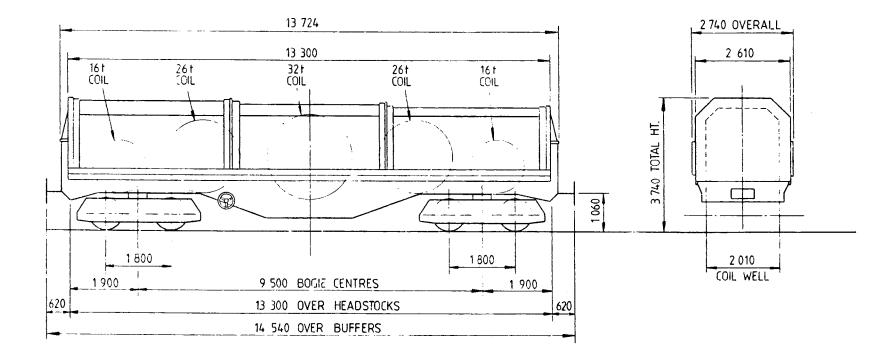
BRAKE -	DUAL, BLOCK; SIDESCREW
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 1000
JOURNALS -	Ø 130

TYPE -	Hbfis
WAGON No	24 71 2396 200 - 299
	TARCAL COCCOAD ANONIMA
BUILDER -	TAFESA SOCIEDAD ANONIMA
OWNER -	TAFESA SULEDAD ANONIMA TRANSFESA

с.) Да **Ха**

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		A	В	C	D		TOPS INFORMATION							
90	39	·St/	47·5†	55·5t	65·5t	AARKND		OPERATING	SPEED	BRA	KE FORCE DATA	EXCESS	RA	DESIGN
S	39	•5† (•7•5t	55	5.5.	CARKND	60	mile/h UP TO	90 tonne GLW	18 t UP TO	44† CHANGEOVER WT.	LENGTH	(GLW)	SHEET
120			0.0	01		IPAE		mile/h ABOVE	20 IONNIG GLAA	42† ABOVE		3	8	W 1378



TARE -	24 500 kg
CAPACITY, WEIGHT-	65 500 kg
CAPACITY, VOLUME-	
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	9450·81

BRAKE -	AIR, BLOCK
SUSPENSION -	LHB 78 BOGIE
COUPLINGS -	U.I.C. SCREW
BUFFERS -	RINGFEDER, 440 x 340
WHEELS -	920 DIA.
JOURNALS -	130 DIA ROLLER BEARINGS

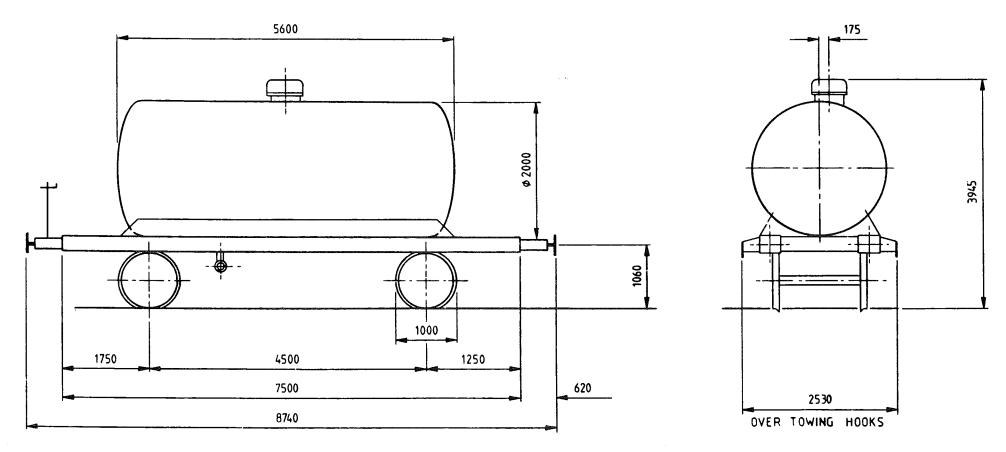
TYPE -	Tafhis
WAGON No.	• 33 80 4746 000 - 049
0111000	
BUILDER -	LINKE - HOFMANN - BUSCH
OWNER -	V. T.G.

2 AXLE 40t G.L.W. TANK.

ICE 588

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		A	В	C	D		TOPS INFORMATION						
	1	17·6†	21·6†	25.6	t	AARKND	OPERATING	SPEED	BRAKE F	ORCE DATA	EXCESS	RA	DESIGN
S	1	17·6t	21·6†	25.6	ł	CARKND	60 mile/h UP TO	40 tonne GLW	9t FORCE UP TO	22 tonne G.L.W.	LENGTH	(GLW)	SHEET
						ICAD	mile/h-ABOVE	40 TOULLE GLAS	201 FORCE ABOVE	ZZ TOMIE U.L.W.	4	6	W1419



TARE -	14-41	
CAPACITY, WEIGHT-	25.6†	
CAPACITY, VOLUME-	17 m ³	
FLOOR AREA -		
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	- 4508.87	

BRAKE -	AIR BLOCK	
SUSPENSION	- DOUBLE LINK	
COUPLINGS -	U.I.C.	
BUFFERS -	HYDRAULIC	
WHEELS -	Ø 1000	
JOURNALS -	ø130	

TYPE -	Zcfs	
WAGON No.	- 23 80 7391 070	
BUILDER -	V.T .G.	

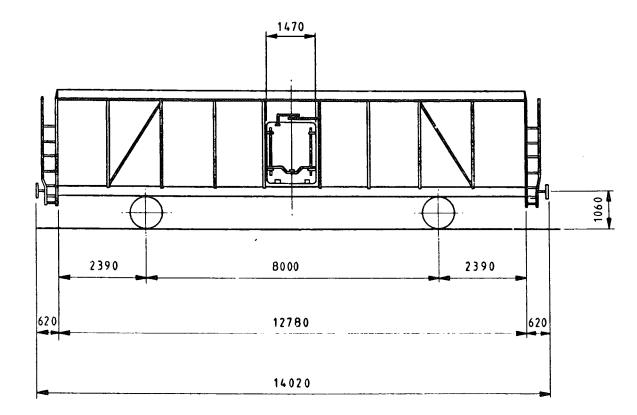
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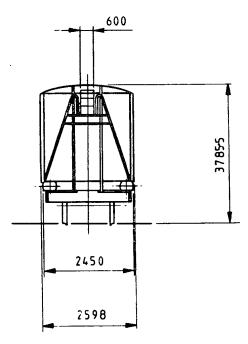
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

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	L	Α	В	C	D			TOPS INFO	RMATION				
	15	5·2 ł	19 <u>-</u> 2†	23·2 t		AARKND	OPERATING	SPEED	BRAKE FORC		EXCESS	RA	DESIGN
S	19	5·2 t	19·2†	19·2 t		CARKND	60 mile/h UP TO		91 FORCE UP TO		LENGTH	(GLW)	SHEET
	Γ					 1 1 B H	50 mile/h ABOVE	36 tonne GLW	18t FORCE ABOVE	24 tonne ULW	12	6	W 1735





TARE -	16-81
CAPACITY, WEIGHT-	23.21
CAPACITY, VOLUME	- 44.431
FLOOR AREA -	23.56 m
MIN. CURVE -	60 m
GEN. ARRGT. DRG. N	loIF 01/1

BRAKE -	AIR, VAC, THROUGH PIPE
SUSPENSION	-DOUBLE LINK
COUPLINGS -	UIL
BUFFERS ·	
WHEELS -	Ø 1000
JOURNALS -	Ø130

TYPE -	lbefhps	
WAGON No	-04 83 8088 000	-049
BUILDER - B	RUGEOISE & NIVE	LLES
OWNER - II	NTERFRIGO	
· · · · · · · · · · · · · · · · · · ·	100	116 .

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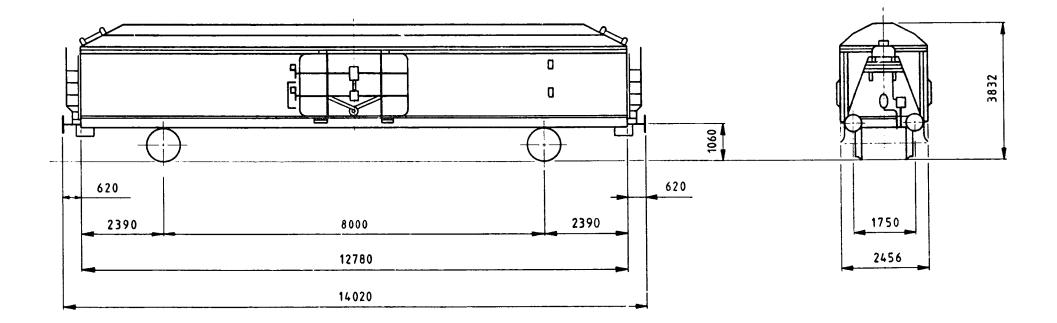
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2 AXLE 401 GLW REFRIGERATOR VAN

11E 591

	Τ	A	B	C	D		TOPS IN	ORMATION			
		18-1	22.1	26-1		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
5	\$	18-1	22·1	26 ·1		CARKND	60 mile/h UP TO	12t FORCE UP TO 30t GLW	LENGTH	(GLW)	SHEET
						IIBL	mile/h ABOVE 40 tonne GLW	301 FORCE ABOVE	12	6	W 1734



TARE -	13-9t
CAPACITY, WEIGHT-	26·11
CAPACITY, VOLUME-	43-9 m ³
FLOOR AREA -	23.6 m ³
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	IF 11.01.001

BRAKE -	AIR. VAC. THRO' PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	
WHEELS -	Ø 1000
JOURNALS -	Ø 130

TYPE -	lbefhps
WAGON No	03 83 8087 000-029
BUILDER -	BRUGEOISE & NIVELLES
OWNER -	INTERFRIGO
	100115

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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

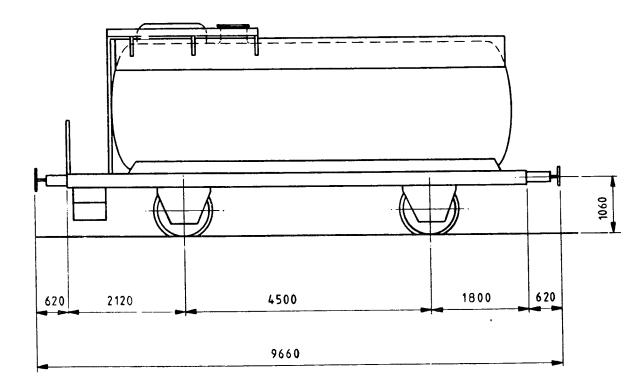
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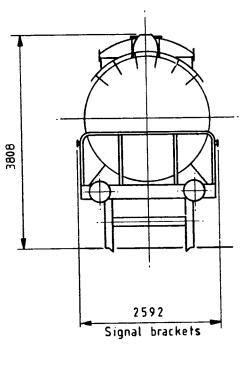
П

ICE 594

2 AXLE 40T. GLW. TANK

ABCD		TOPS INFO	DRMATION			
19-5 1 22-51 26-51	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S 19.5t 22.5t 26.5t	CARKND	60 mile/h UP TO 40 tonne GLW	9t FORCE UP TO 22 tonne GLW	LENGTH	(GLW)	1 - ·
	ICBC	mile/h ABOVE	201 FORCE ABOVE	6	6	W1544





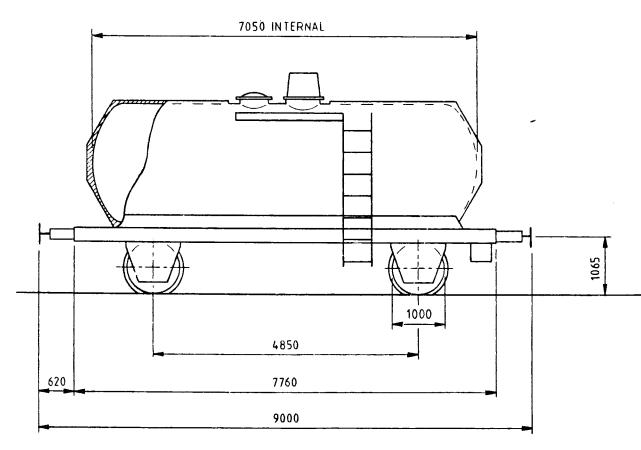
TARE -	13·5 t
CAPACITY, WEIGHT-	26.51
CAPACITY, VOLUME-	30 m 3
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- B 3031.01.2

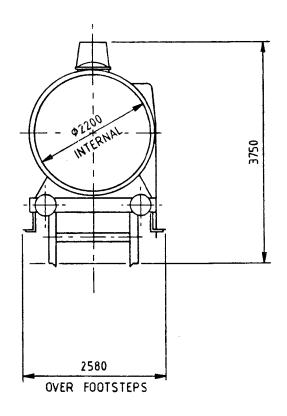
BRAKE -	AIR:VAC.THROUGH PIPE; BLOCK
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C. SCREW
BUFFERS -	HYDRAULIC Ø370
WHEELS -	Ø1000
JOURNALS -	Ø130

TYPE -	Zfgks
WAGON No	-23 80 7395 400-405
BUILDER -	WAGGONFABRIK
BUILDER - OWNER -	WAGGONFABRIK

4

Τ	A		8	C	D	TOPS INFORMATION											
	19.	9t 2	23.91	27.9	t		AARKND			OPERATING	SPE	EED	BRAKE	FORCE DATA	EXCESS	RA	DESIGN
5	19	9† :	23.91	27.9			CARKND	C	60	mile/h UP TO mile/h ABOVE	40	tonne GLW	9t FORCE UP TO 20t FORCE ABOVE	22 tonne G.L.W.	LENGTH S	(GLW) 6	SHEET W1515





TARE -	12.11
CAPACITY, WEIGHT-	27·9t
CAPACITY, VOLUME-	26m ³
FLOOR AREA -	
MIN. CURVE -	60m
GEN. ARRGT. DRG. No	

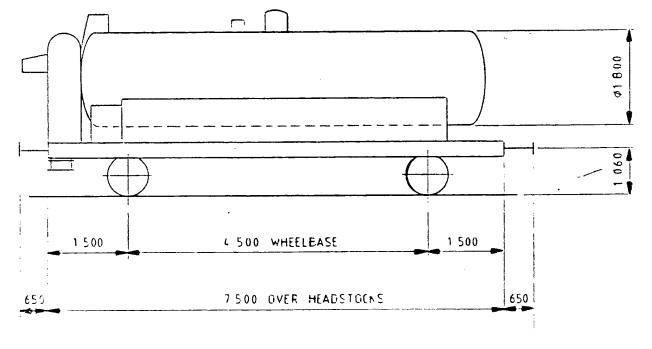
BRAKE -	AIR BLOCK
SUSPENSION -	SINGLE LINK
COUPLINGS -	U.I.C. SCREW
BUFFERS -	HYDRAULIC Ø 360 HD
WHEELS -	1000 DIA
JOURNALS -	130 DIA

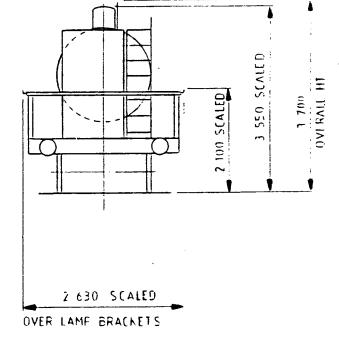
TYPE -	Zefs
WAGON No	23 83 7397 900
BUILDER -	COSFER
OWNER -	MONTEDIPE S.p.A.

1

331 GLW 2 AXLE TANK

A E C D	TOPS INFORMATION							
21-41 27 71 22 71	AARKNE	OPERATING	SPEED	BRAKE FOR	CE DATA	EXCESS	RA	DESIGN
5 21-41 22 71 22-71	CARKND	60 mile 'h UP TO	Do tenno CLIM	101 FORCE UP TO	211 GLW	LENGTH	(GLW)	SHEET
	ICAB	HE HABOVE	33 tonne GLW	171 FORCE ABOVE		4	4	





8 800 OVER EUFFERS

TARE -	10 600Kg
CAPACITY, WEIGHT-	22.71
CAPACITY, VOLUME-	15 m ³
FLOOR AREA -	
MIN CURVE -	60 m
GEN ARRIGT. DEG. No	- WH 167

BRAKE -	AIR
SUSPENSION	- SINGLE LINK
COUPLINGS -	ÚI C
BUFFERS -	HYDRAULIC ¢ 370 HD
WHEELS -	¢1 000
JOURNALS -	

TYPE -	ZIEKS	_
WAGON No	23 80 7490 000.001	
BUILDER -	HULS (HEMICAL WOFKS	
OWNER -	D'E	

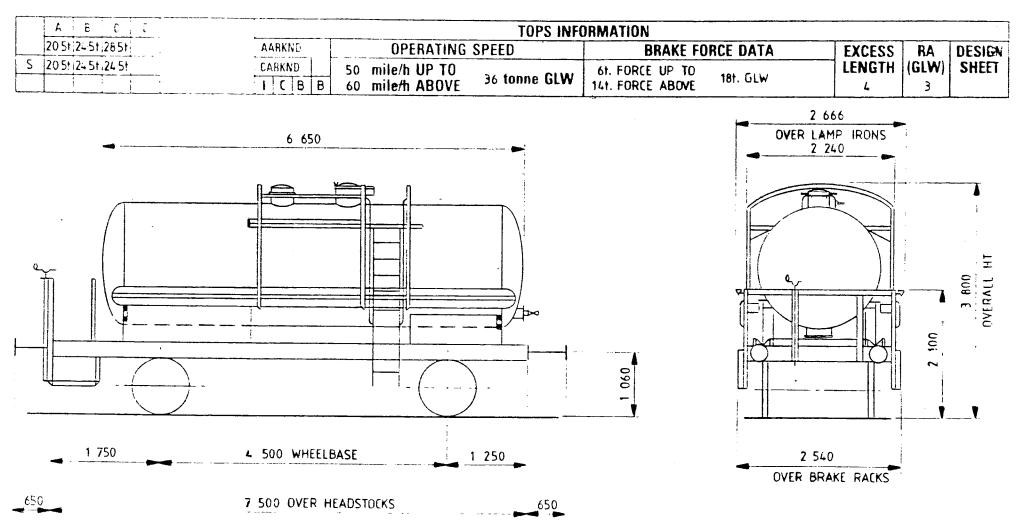
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ISSUE 🗄

ICE 600

32t. GLW. 2 AXLE TANK



6 800 OVER BUFFERS

TARE -	11 200 Kg
CAPACITY, WEIGHT-	28.5t
CAPACITY, VOLUME-	20m ³
FLOOR AREA	
MIN. CURVE -	60m
GEN. ARRGT DRG N:	- ET 1229-2

BRAKE -	AIR & VAC. THRO' FIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø370 HD
WHEELS -	¢im
JOURNALS -	

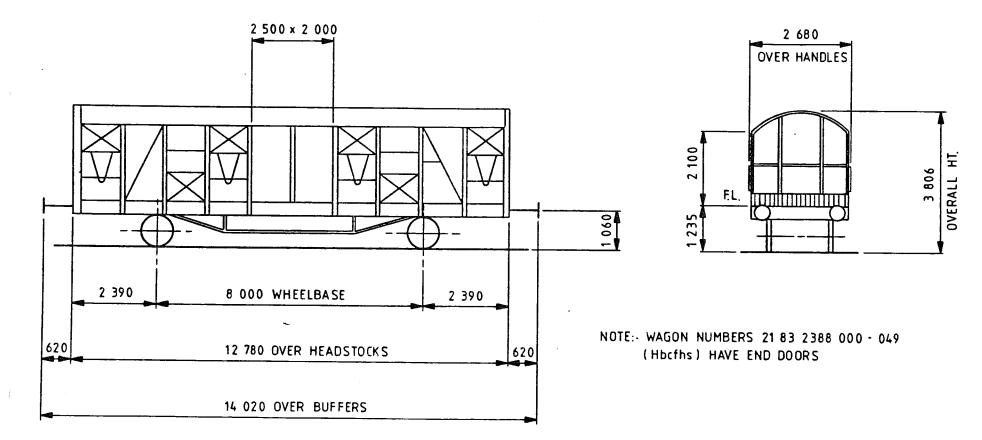
TYPE -	Zefs
WAGON No	23 80 7397 400
	•
BUILDER -	
OWNER -	BADISCHE ANILIN & SODA WORKS

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40 t GLW 2 AXLE VAN

		A	B	ľ	D		TOPS INFORMATION						
				26 t		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN		
	S	18 t	22 t	26 †		CARKND	60 mile/h UP TO	7 + FORCE UP TO	LENGTH		SHEET		
L						I L B E	mile/h ABOVE 40 tonne GLW	18 + FORCE ABOVE 23 + GLW	12	. 6			



TARE -	14 t
CAPACITY, WEIGHT-	26 t
CAPACITY, VOLUME-	69 m ³
FLOOR AREA -	29 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 84324

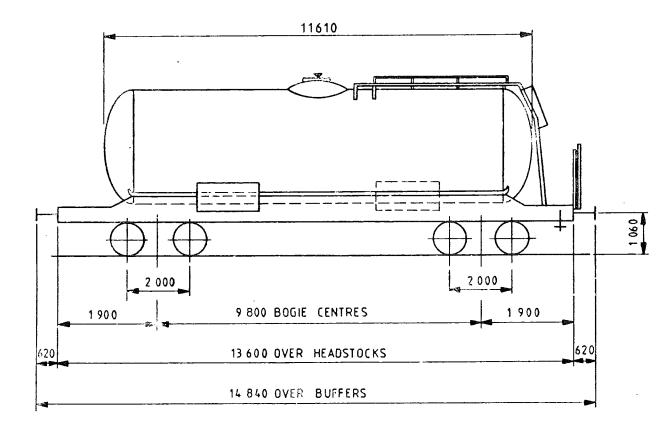
BRAKE -	AIR & VAC. THRO' PIPE, SIDE LEVER
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø 440 HD
WHEELS -	Ø1000
JOURNALS -	Ø 130

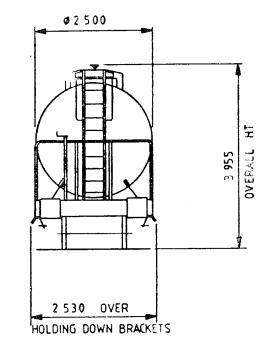
TYPE -	Hbcfhs ; Hbfhs
WAGON No	21 83 2382 300 - 699
	21 83 2388 000 - 049
BUILDER -	F.S.
OWNER -	F.S.

ILE 653

40 I ULW Z AXLE

		A	B	C	I) [TOPS INFORMATION				
	4	1 -71	49.7	57.	31		AARKND	Ι	OPERATING SPEED	BRAKE FORCE DATA EXCESS RA DESI	
S	l	•1·7†	49.7	57.	31		CARKND	\Box	60 mile/h UP TO 80 tonne GLV	141 FORCE UP TO 401 GLW LENGTH (GLW) SHE	ET
_				Γ.			ICB	0	mile/h ABOVE ov toline dra	361 FORCE ABOVE 4010CH 4 6	

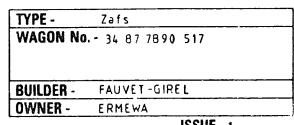




ICE 659

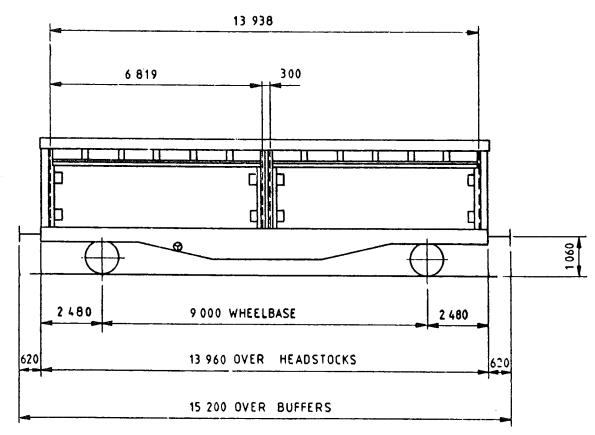
TARE -	22.775 t
CAPACITY, WEIGHT-	57·3†
CAPACITY, VOLUME-	54.5 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	108 460

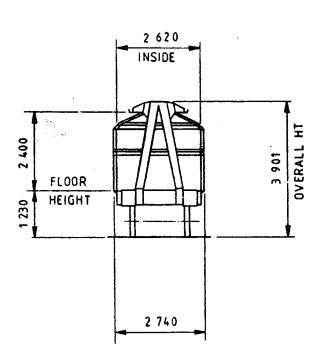
BRAKE -	AIR & VACUUM THROUGH PIPE					
SUSPENSION	- Y 21 C Se					
COUPLINGS -	U.I.C.					
BUFFERG -	TYPE U4A 580 +400 HD					
WHEELS -	Ø920					
JOURNALS -	Ø130					



45t GLW 2 AXLE VAN

	A	8	C	D	<u></u>		TOPS INFO	DRMATION	an an an an an an an an an an an an an a		}
90	17 !	211	251	301		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
S 120	171	211		51		CARKND	60 mile/h UP TO mile/h-ABOVE 40 tonne GLW	81 FORCE UP TO 221 FORCE ABOVE 241 GLW	LENGTH	(GLW) 8	





TARE -	151
CAPACITY, WEIGHT-	451
CAPACITY, VOLUME-	83.8 m ³
FLOOR AREA -	36.5 m ²
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No	- C2107 01 002

BRAKE -	AIR; SCREW	
SUSPENSION	- DOUBLE LINK	
COUPLINGS -	U.I.C.	
BUFFERS -	RINGFEDER	
WHECLS -	\$920	H
JOURNALS -	Ø130	

TYPE -	Hbfis
WAGON No	23 80 2398 500 & 501
BUILDER -	DUEWAG

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IPE 663

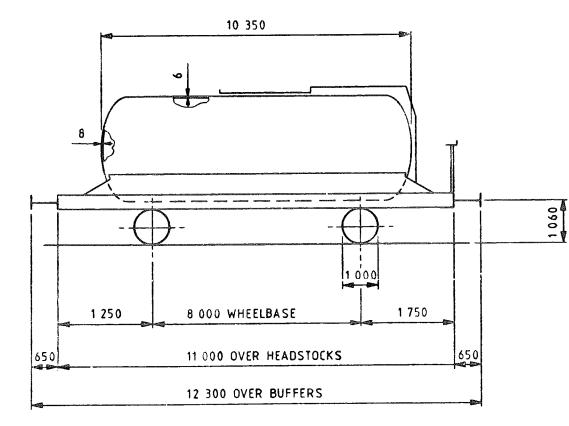
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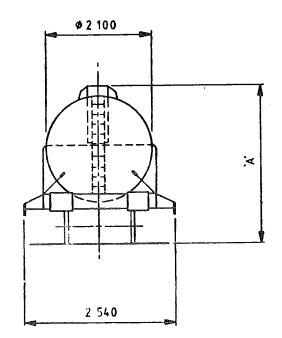
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40 t GLW 2 AXLE TANK

ICE 666

Γ	T	A	B	C	D		TOPS INF	ORMATION			+
1	s	16.51	20.51	24.51		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
	Ī		Î	Ι		CARKND	60 mile/h UP TO 40 tonne GLW	201 FORCE UP TO 22 1 GLW	**********	(GLW)	SHEET
Ľ			<u> </u>				-mileA ABOVE- 40 tonne GLVV	111 FORCE ABOVE	10	6	W 1599





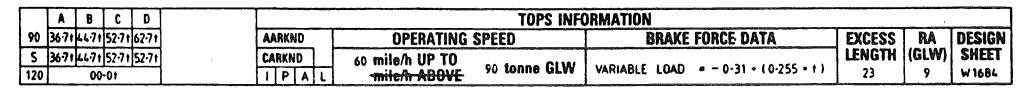
23 80 7498 000 + 001 - HEIGHT OVER TOP FITTINGS 'A' = 3 920 23 80 7498 002 - HEIGHT OVER TOP FITTINGS 'A' = 3 770

15·5 t
24.5 1
34 m ³
60 m
4217. 80 + 81

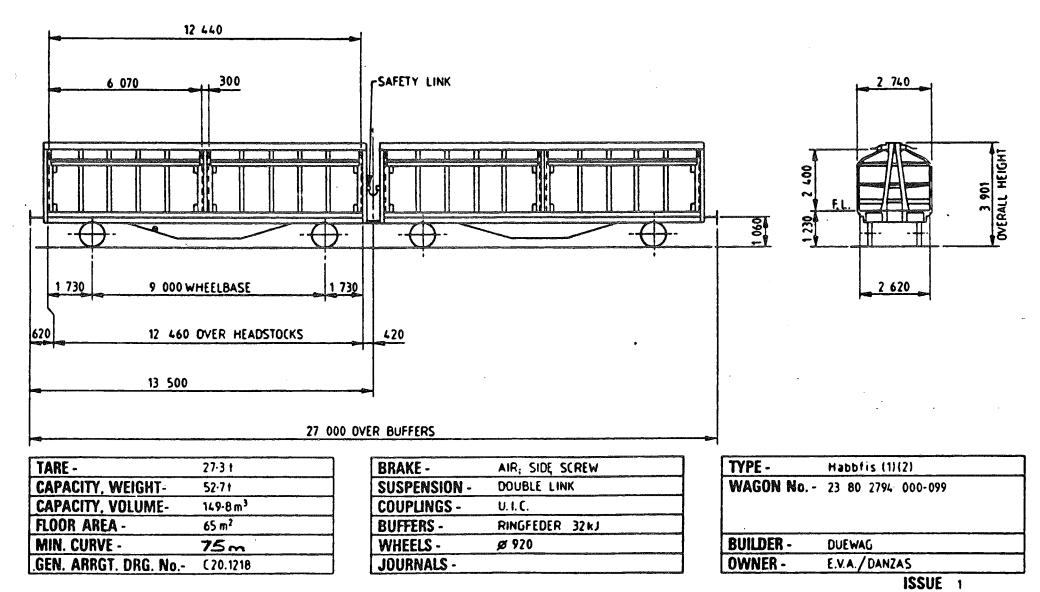
BRAKE -	AIR; PLATFORM	SCREW & SIDE LEVER
SUSPENSION -	DOUBLE LINK	
COUPLINGS -	U. I. C.	
BUFFERS -		The second second second second second second second second second second second second second second second s
WHEELS -	Ø1000	
JOURNALS -	Ø 130	

TYPE -		Zcef	ks			
WAGON	No	23 80	7498	000 -	002	
a- a a u-astatutati						
BUILDER		VTG		<u></u>	Gantay 243 - 2 - 7 - 7 - 2	

PERMANENTLY COUPLED 2x2 AXLE 45t GLW VANS



IPE 668



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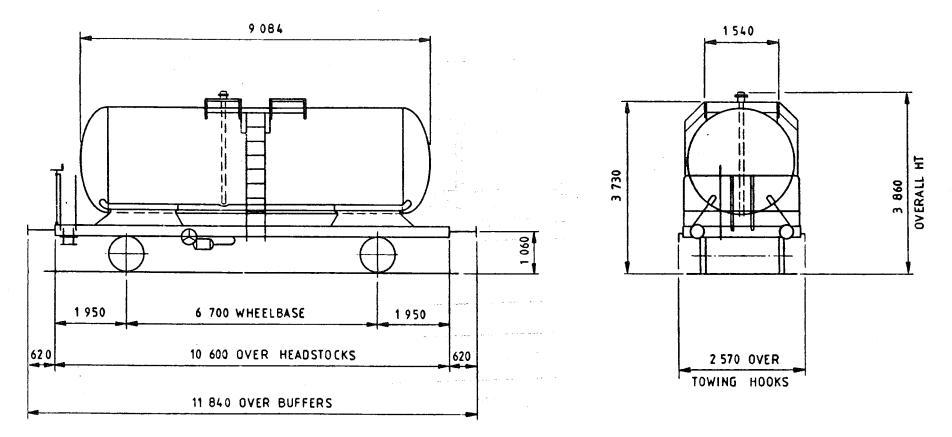
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401 GLW 2AXLE TANK

C **TOPS INFORMATION** A B D S 20-5t 24-5t 28-5t EXCESS RA LENGTH (GLW) AARKND **OPERATING SPEED BRAKE FORCE DATA** DESIGN SHEET CARKND 60 mile/h UP TO mile/h ABOVE 91 FORCE UP TO 191 FORCE ABOVE 40 tonne GLW 231 GLW ICA 9 6 W 1736



TARE -	11.51	
CAPACITY, WEIGHT-	28.51	
CAPACITY, VOLUME-	27 m ³	
FLOOR AREA -	-	
MIN. CURVE -	60 m	
GEN. ARRGT. DRG. No.	- 1200	

BRAKE -	AIR; SIDE SCREW
SUSPENSION -	DOUBLE LINK; 2 STAGE SPRING
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC
WHELLS -	Ø 1000
JOURNALS -	Ø 130

TYPE -	Zcfs
WAGON No.	- 23 81 7391 000, 001
	· · ·
BUILDER -	WAGGON REP WERKSTATTE
OWNER -	EVA

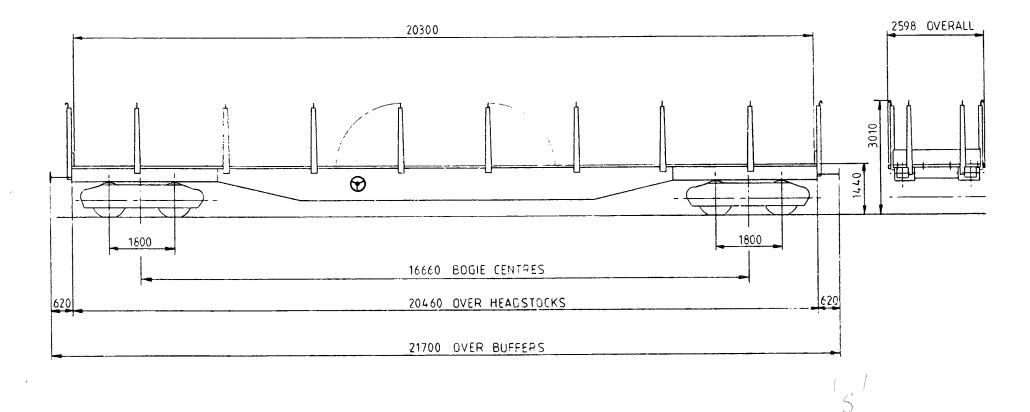
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ICE 669

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	A	B	1	: [D	 	<u></u>	TOPS INFO	RMATION				
90	39t	47†	55	† 6	5†	AARKND	OPERATING SPE	ED	BRAKE FORC	E DATA	EXCESS	RA	DESIGN
S	39 t	47†		55t		CARKND	60 mile/h UP TO	tonne GLW	12.6 + FORCE UP TO	48 tonne GLW	LENGTH	(GLW)	
120		0.0) t			 I P A Q	mile/h-ABOVE 90	CONTRACTOR	46.6 T FORCE ABOVE		13	8	W1624



TARE -	25 +
CAPACITY, WEIGHT-	65 +
CAPACITY, VOLUME-	
FLOOR AREA -	49.5 m
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	- 0-251.01.0003

BRAKE -	AIR, BLOCK
SUSPENSION -	TYPE WU83/mDB BOGIE
COUPLINGS -	U.I.C. SCREW
BUFFERS -	RINGFEDER 32 KJ
WHEELS -	920 DIA
JOURNALS -	130 DHA

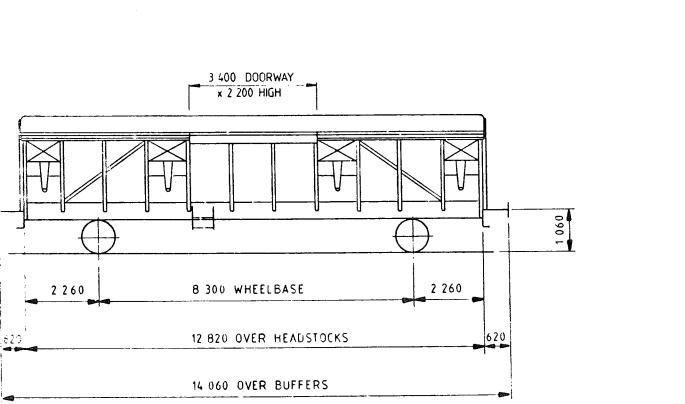
TYPE - WAGON N	0
	33 80 4737 000-049
BUILDER -	WAGGON UNION
OWNER -	DANZAS
	ISSUE 1

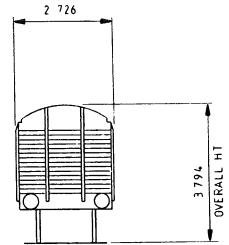
IFE 670

ITE 673

401GLW 2 AXLE VAN

		A	8	C	D			TOPS INFO	RMATION				
	1	9.51	23.51	27.5t		AARKND	OPERATING	SPEED	BRAKE FORCE	DATA	EXCESS	RA	DESIGN
S	1	9.51	23·5†	27.51		CARKND	60 mile/h UP TO	40 tonne GLW	A.B. 111 FORCE UP TO	18 F GLW	LENGTH	(GLW)	SHEET
						ITXM	mile/h ABOVE	40 tonne GLW	V E 211 A B 1BI FORCE ABOVE		12	6	W 1663





TARE -	12.51
CAPACITY, WEIGHT-	27.51
CAPACITY, VOLUME-	66 m ³
FLOOR AREA -	30m²
M.N. CURVE -	60m
GEN. ARAGT. DRG. No	108.0010)

BRAKE -	DUAL: SIDE LEVER
SUSPENSION ·	DOUELE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC
WHEELS -	\$1000
JOURNALS -	

TYPE -	Hbfs
WAGON No	24 71 2380 000
BUILDER - Du	RECCLINDE GESTION COMMERCIAL, MADRID
	RECCI IN DE GESTI IN CUMMERCIAL, MADRID
	RECCUM DE GESTION COMMERCIAL, MADRID

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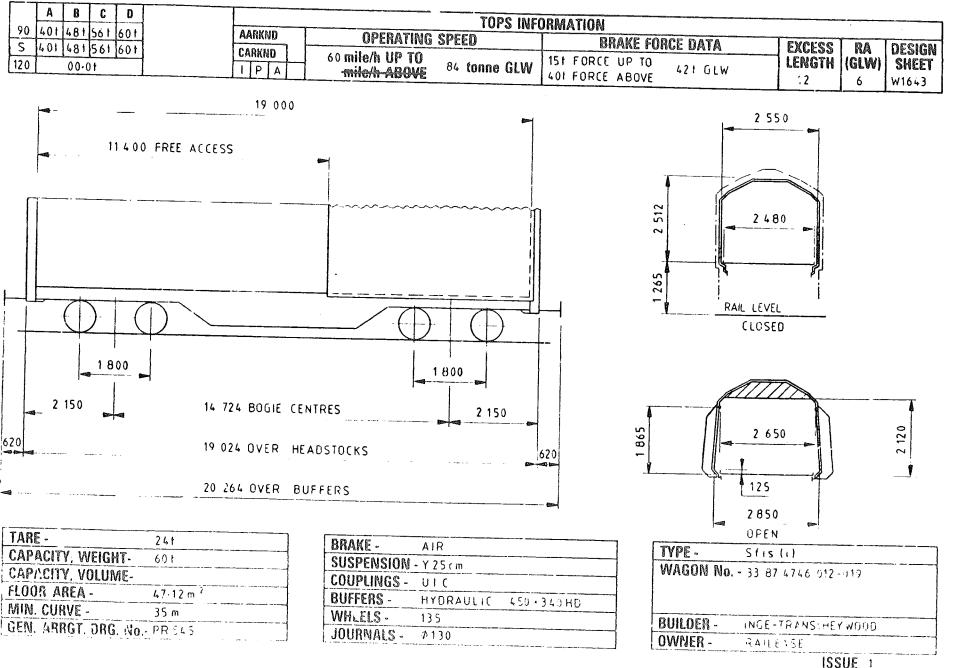
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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

841 GLW EASILOADER CURTAIN-SIDED WAGON

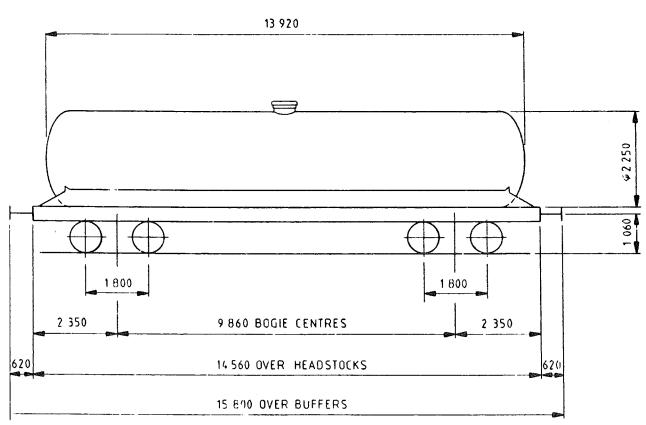
IPE 672

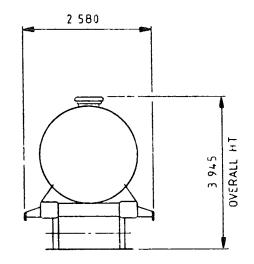


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901 GLW BOGIE TANK

TOPS INFORMATION C D A 8 **OPERATING SPEED** EXCESS RA LENGTH (GLW) 90 38.41 46.41 54.41 64.41 **BRAKE FORCE DATA** DESIGN AARKND SHEET 38.4146.4154.4154.41 60 mile/h UP TO mile/h ABOVE VARIABLE LOAD S CARKND 90 tonne GLW 0-282 + (0-512 + 1) W1671 ICAD 5 8 120 00.11





TARE -	25-6 t
CAPACITY, WEIGHT-	64.41
CAPACITY, VOLUME-	52 m ³
FLOOR AREA -	
MIN. CURVE -	36 m
GEN. ARSGT DRG. No	+2552.80

BRAKE -	AIR : FLATFORM & SIDE SCREW
SUSPENSION	- WU 80 CB BOGIE
COUPLINGS -	UIC.
BUFFERS -	HYDRAULIC
WHEELS -	\$920
JOURINALS -	Ø130

TYPE -	Zafas (3)
WAGON No	005-014
	33 80 7794 017-026
BUILDER -	Lri Ə
OWNER -	VIC
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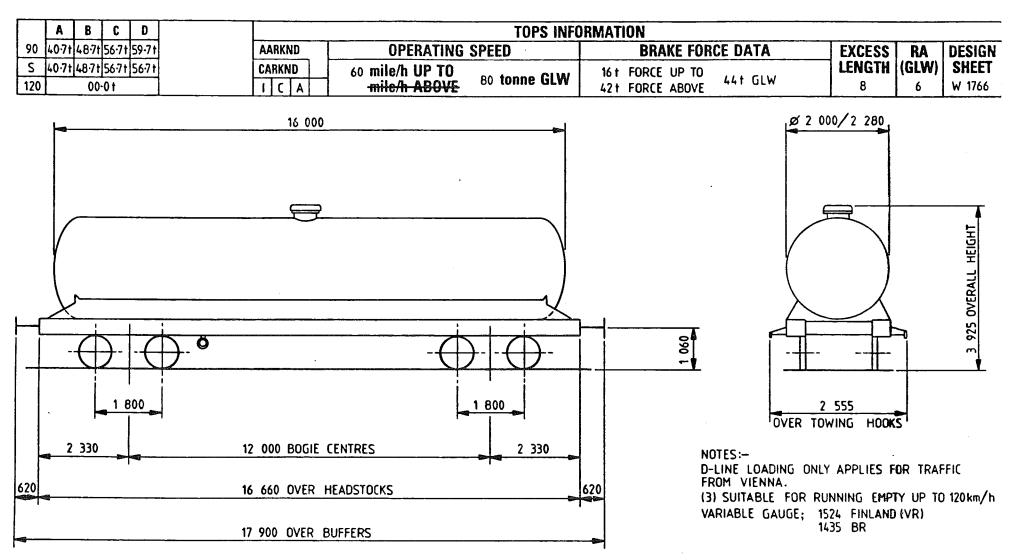
ICE 674

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801 GLW BOGIE TANK



TARE -	23·3 t
CAPACITY, WEIGHT-	59.7 t (SEE NOTE)
CAPACITY, VOLUME-	56 m ³
FLOOR AREA -	
MIN. CURVE -	35m
GEN. ARRGT. DRG. No.	•

BRAKE - AIR BRAN	KE; PLATFORM A	ND SIDE SCREW
SUSPENSION -	LHB 82 BOGI	E
COUPLINGS -	U. I. C.	
BUFFERS -	HYDRAUL IC	550 × 340
WHEELS -	ø 920	
JOURNALS -	ø 120	

TYPE -	Zafs(3) (SEE NOTE)
WAGON No	34 80 7899 000-009
BUILDER -	FRANZ KAMINSKI
<u>OWNER -</u>	V. T.G.
	to edite .

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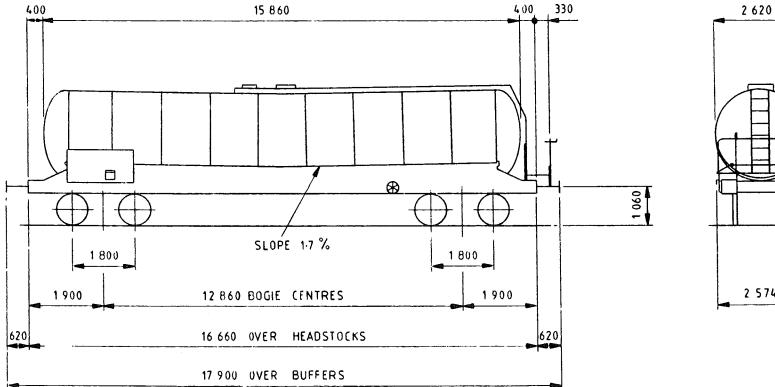
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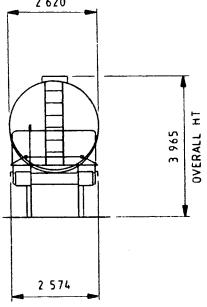
_ISSUE 1

ICE 676

90 t GLW BOGIE TANK

		A	B	Τ	C	D			TOPS INFORMATION							
		38.71	46.7	715	4·7t	64.71		AARKND	OPERATING	SPEED	BRAKE FORC	E DATA	EXCESS	RA	DESIGN	
S	- T	C8·71	46.7	115	4.71	54.71	1	CARKND	60 mile/h UP TO	B0 tonne GLW	12.745 FORCE UP TO	49t GLW	LENGTH	(GLW)	ł I	
12	0		0	0.0	t]	1 C A D	mile/h-ABOVE	B0 tonne GLW	47 1 FORCE ABOVE		8	9	W1762	





TARE -	25·5 t
CAPACITY, WEIGHT-	64·7 t
CAPACITY, VOLUME-	75m ³
FLOOR AREA -	
MIN, CURVE -	35m
GEN. ARRGT. DRG No	-38000 990 009

BRAKE -	AIR: PLATFORM & SIDE SCREW
SUSPENSION	- Y 25LS.
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC 340 + 450 HD
WHEELS -	¢920
JOURNALS -	Ø 130

TYPE -	1
WAGON No.	- 33 87 7994 000-009
••• • ••••••••••••	
BUILDER -	ANF INDUSTRIE
CWNER -	SIMOTRA
	ISSUE 1

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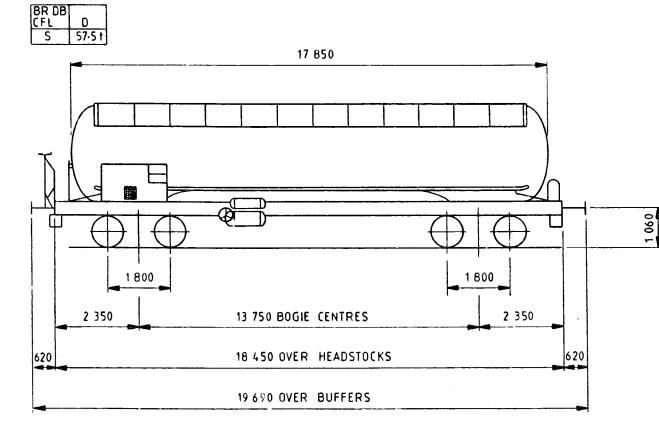
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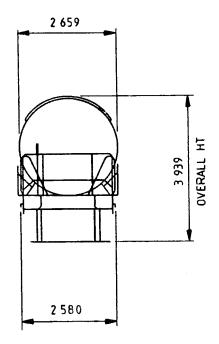
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

ICE 677

901 GLW BOGIE TANK

ſ		A	8	C	D		TOPS INFORMATION						
	90	31.51	39.51	47.5	57.51	AARKND		OPERATING	SPEED	BRAKE FOR	CE DATA	EXCESS	RA
	S	31.51	39.51	47.5	47.51	CARKND	ן ך	60 mile/h UP TO		32-51 FORCE UP TO	59t GLW	LENGTH	(GLW)
ĺ	120		00	01			V D	mile/h ABOVE	90 tonne GLW	47-31 FORCE ABOVE		11	9





ICE 679

TARE -	32.5 t
CAPACITY, WEIGHT-	57.51
CAPACITY, VOLUME-	93m ⁻³
FLOOR AREA -	
NIN. CURVE -	60m
GEN. ARRGT. DRG. No	7 12 20.0.01

BRAKE -	AIR; SIDE SCREW & PLATFORM
SUSPENSION	- L HB 82 BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HD 340 +550
WHEELS -	¢920
JOURNALS -	ø130

TYPE -	Zafgs(3)
WAGON No.	- 33 80 7794 027-030,035,036
BUILDER -	LINKE - HOFMANN-BUSCH
OWNER -	VIG
OTTIGMIT	

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DESIGN SHEET

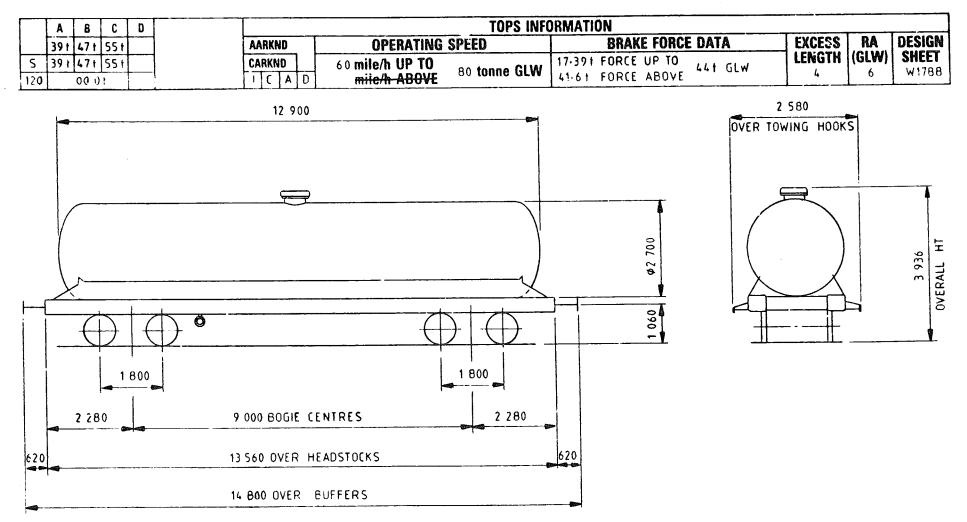
W180B

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801 GLW BOGIE TANK

ICE 681



TARE -	25t	
CAPACITY, WEIGHT-	551	
CAPACITY, VOLUME-	70 m ³	
FLOOR AREA -		
MIN. CURVE -	60m	
GEN. ARAGT DRG. No		

BRAKE -	AIR PLATFORM & SIDE SCREW
SUSPENSION	- DB BOGIE
COUPLINGS -	U,I.C.
BUFFERS -	HYDRAULIC
WHEELS -	Ø 920
JOURIVALS -	Ø130

TYPE -	Zatgs(3)
WAGON No.	- 33 80 7794 015,016
BUILDER -	LINKE HOFMANN-BUSCH
OWNER -	V T.G.
	ISSUE 1

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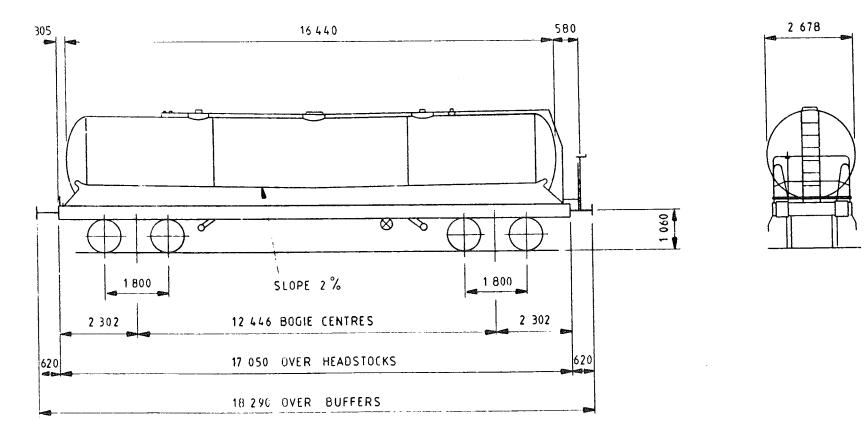
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Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

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90 + GLW BOGIE TANK

	Т	A	8	C	D	T T	TOPS INFORMATION							
90	3	9·2 t	47.21	55.21	65·21		AARKND OPERATING SPEED BRAKE FO			RCE DATA	EXCESS	RA	DESIGN	
S	3	9.21	47.21	55.21	65.21		CARKND	60 mile/h UP TO	B0 tonne GLW	14 FORCE UP TO	491 GLW	LENGTH	(GLW)	SHEET
120	0		.)(;	1			I C A	mile/h ABOVE	BO IDUNG OLAA	471 FORCE ABOVE		9	9	W1850



TARE -	24-81
CAPACITY, WEIGHT-	65·2 t
CAPACITY, VOLUME-	90 m ³
FLOOR AREA -	
MIN. CURVE -	35 m
GEN. ARRGT DRG No	- 103529

BRAKE -	- AIR, PLATFORM & SIDE SCREW						
SUSPENSION ·	SUSPENSION - Y 25 LS BOGIE						
COUPLINGS -	U.I C						
BUFFERS -	HYURAULIC 345 x 265 HD						
WHEELS -	¢ 920						
JOURNALS -	Ø 130						

TYPE -	Zats (3)
WAGON No.	- 33 70 7899 141-048
BUILDER -	ARBEL FAUVET RAIL
OWNER -	TIP HOOK

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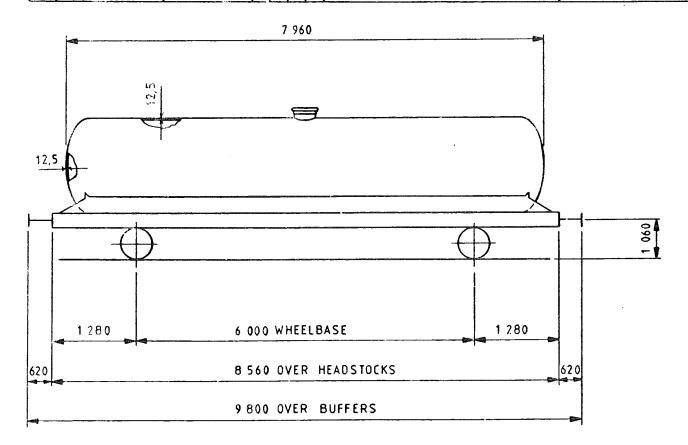
Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

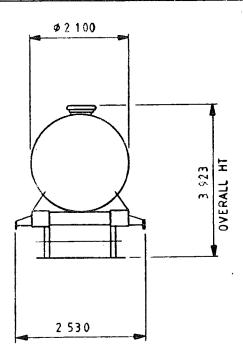
ISSUE 1

ICE 685

2 AXLE TANK WAGON

	A	B	C	D		TOPS INFORMATION						
90	171	211	251	30t	AA	ARKND	OPERATING SPEED	BRAKE FOI	RCE DATA	EXCESS	RA	DESIGN
S	<u> </u>	211		251	CA	RKND	60 mile/h UP TO mile/h ABOVE 45 tonne GL	81 FORCE UP TO 221 FORCE ABOVE	24t GLW	LENGTH 6	(GLW) 8	SHEET W1827





ICE 687

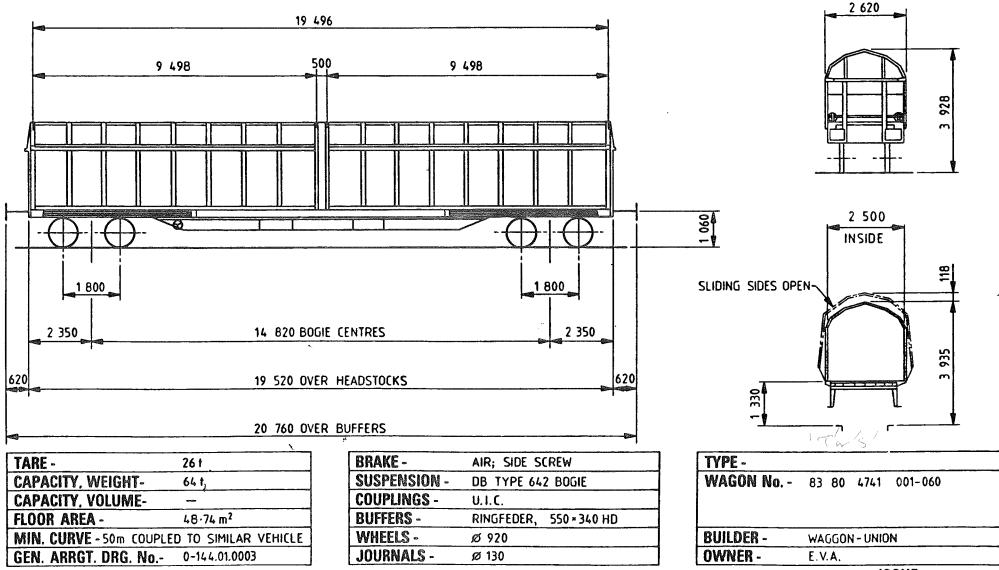
TARE -	15t
CAPACITY, WEIGHT-	301
CAPACITY, VOLUME-	26 m ³
FLOOR AREA -	+
MIN. CURVE -	35 m
GEN. ARRGT. DRG. No.	

BRAKE -	AIR; LEVER
SUSPENSION	- DOUBLE LINK
COUPLINGS -	U.1.C.
BUFFERS -	RINGFEDER 450 + 340 HD
WHEELS -	¢ 920
JOURNALS -	Ø130

TYPE -	Zcfs(3)
WAGON No.	- 23 80 7495 020-022
BUILDER -	KAMINSKI
OWNER -	VTG

901 GLW BOGIE VAN

	A	B	C	D			TOPS INFO	RMATION				
90	38	t 46t	54 t	64 t	AARKND	OPERATING	SPEED	BRAKE FOR	RCE DATA	EXCESS		DESIGN
S	38	t 46t	54 t	54 t	CARKND	60 mile/h UP TO	90 tonne GLW	15t FORCE UP TO		LENGTH	(GLW)	SHEET
120		00	·0†		IPA	-mile/h-ABOVE	AN COULLE OFAA	461 FORCE ABOVE	48† GLW	13	8	W 1858



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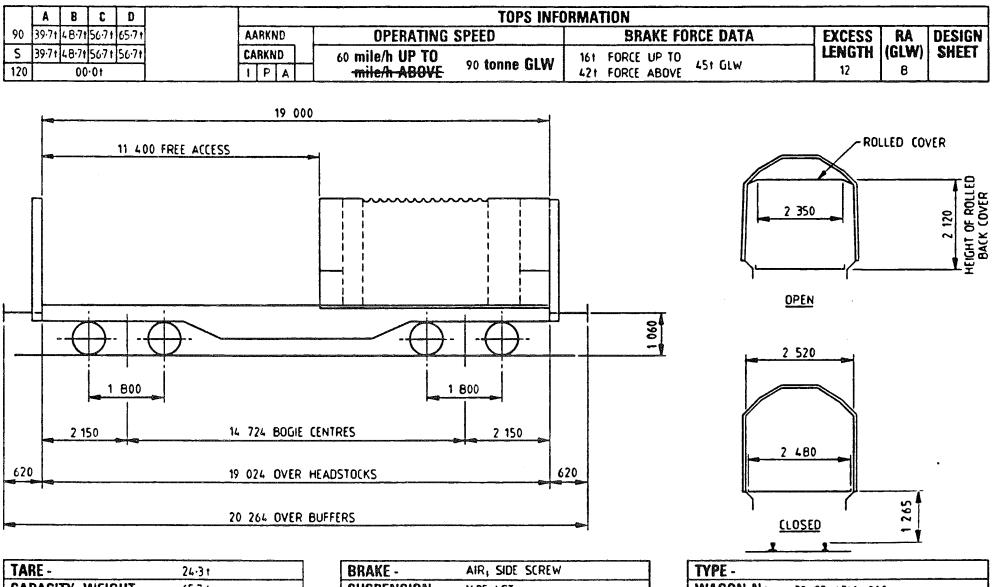
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IPE 690

901 GLW EASILOADER



CAPACITY, WEIGHT-	, 65·7 t	
CAPACITY, VOLUME-	112 m ³	
FLOOR AREA -		
MIN. CURVE -	35 m	
GEN. ARRGT. DRG. No	1207	
		فند و علا سالند بن

BRAKE -	AIR, SIDE SCREW
SUSPENSION -	Y 25 LST
COUPLINGS -	U. I. C.
BUFFERS -	US HYDRAULIC
WHEELS -	ø 920
JOURNALS -	ø 130

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ISSUE 1

IPE 691

801 GLW BOGIE HOPPER

ABCD	1	, and a constant of the second s	TOPS INFO	RMATION		an an an an an an an an an an an an an a		
431 511 591	AARKND	OPERATING			DRCE DATA	EXCESS	RA	DESIGN
S 43t 51t 59t 120 00:0t	CARKND	60 mile/h UP TO mile/h ABOVE	B0 tonne GLW	141 FORCE UP TO 361 FORCE ABOVE	40t GLW	LENGTH 9	(GLW) 6	SHEET
	12 34B E 17 048 0	6 443						3 951 OVERALL HEIGHT
TARE - 211			UUM THRO PIPE, SI	DE SCREW	TYPE -	Uafgpps (4)		
CAPACITY, WEIGHT- 591		SUSPENSION -			WAGON No	33 87 9262	000-009	
CAPACITY, VOLUME- 95m ³			INTERNATIONAL SCR					
FLOOR AREA -			HYDRAULIC Ø 560+	340	BILLIBES			
MIN. CURVE - 60m		WHEELS -			BUILDER -	FAUVET-GIREL		
GEN. ARRGT. DRG. No 107280		JOURNALS -	ø 130		OWNER -	ana ang sang sang dan sang sang sang sang sang sang sang sa		

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ISSUE 1

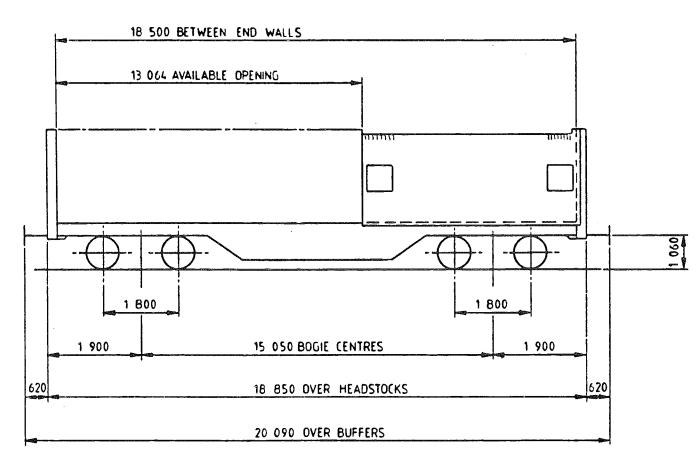
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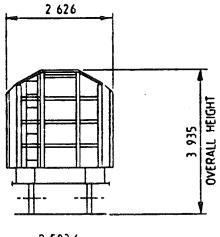
IPE 693

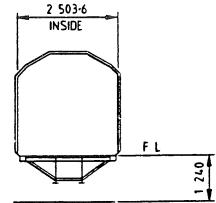
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901 GLW HOODED FLAT

Γ		A	B	C	D				TOPS INFO	RMATION				
	90	39†	47 †	55 t	651	AAF	RKND	OPERATING	SPEED	BRAKE	FORCE DATA	EXCESS		DESIGN
Γ	S	391	47 t	55 t	55 t	CAR	RKND	60 mile/h UP TO	co tonno CIW	131 FORCE UP TO		LENGTH	(GLW)	SHEET
	20		00	0t		1	PA	50 mile/h ABOVE	80 tonne GLW	47t FORCE ABOVE	49t GLW	12	8	W 1914







TARE -	251
CAPACITY, WEIGHT-	65 t
CAPACITY, VOLUME-	
FLOOR AREA -	41·3 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	20050-990-000

BRAKE -	AIR; SIDE SCREW
SUSPENSION -	Y 25 Lsd BOGIE
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC US, CATEGORY A
WHEELS -	ø 920
JOURNALS -	ø 130

TYPE -	
WAGON No	33 87 4741 001-012
·····································	
BUILDER -	ANF INDUSTRIE

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ISSUE 1

IPE 694

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340	
Book	
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FRENCH NATIONAL RAILWAYS (SNCF)

Country 87

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Issue

TANK WAGONS		Exchange Conditions 23,33,34.
Diagram	Description	Vehicle Numbers
ICE549	80t bogie tank wagon	33 87 7996 040 - 33 87 7996 045.
ICE560	80t bogie tank wagon	33 87 7996 046, 33 87 7996 047.
ICE582	80t bogie tank wagon	33 87 7996 048 - 33 87 7996 053.
ICE659	80t bogie tank wagon	34 87 7890 517.
ICE677	90t bogie tank wagon	33 87 7994 000 - 33 87 7994 009.

Issue 1 Country 87	Exchange Conditions 21,43. <u>Vehicle Numbers</u> 21 87 2380 500 - 21 87 2380 999. 43 87 2396 001 - 43 87 2396 005.	· · ·	
Diagram Book 340 FRENCH NATIONAL RAILWAYS (SNCF)	VANS Diagram Description ILE304 40t 2 axle van IPE540 40t 2 axle curtain sided van		

Issue 1	Country 87	Exchange Conditions 23,33.	Vehicle Numbers	33 87 5699 001.	23 87 9192 000.	33 87 9382 000 - 33 87 9382 021.	23 87 9192 001.	33 87 9282 000 - 33 87 9282 009.			· · · · · · · · · · · · · · · · · · ·	
ook 340	FRENCH NATIONAL RAILWAYS (SNCF)		Description	80t bogie hopper	40t 2 axle silo wagon	80t bogie covered hopper	40t 2 axle twin hopper	80t bogie hopper				
Diagram Book 340	FRENCH 1	HOPPERS	Diagram	IPE389	IPE426	IPE453	IPE480	IPE693				

24S2E/3732g/36

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Diagram Book 340	ok 340	Issue 1	
FRENCH N	FRENCH NATIONAL RAILWAYS (SNCF)	Country 87)
ATOMIC FLASK WAGONS	SK WAGONS	Exchange Condition 33.	
Diagram	Description	Vehicle Numbers	
IPE475	152 5t 8 axle atomic flask wgn.	33 87 9985 000 - 33 87 9985 007.	

	Country 87 Exchange Conditions 23,33,43,44,83. Exchange Conditions 23,33,44,83. Vehicle Numbers 83 87 4739 000 - 83 87 4739 034. 23 87 4745 010 - 83 87 4746 019. 33 87 4741 000. 33 87 4741 000. 33 87 4741 001 - 33 87 4741 012. 33 87 4741 000. 44 87 9195 000. 43 87 9196 000 - 43 87 9196 019. 43 87 9196 000 - 43 87 9196 020. 43 87 9196 020 - 43 87 9196 029.		FRENCH N FLAT WAGON Diagram IPE545 IPE673 IPE691 IPE694 ITE537 ITE537 ITE542 ITE543
	87 9196 020 - 43 87 9196	axle body)	TE543
40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 (swap body) flat	87 9196 000 - 43 87 9196	axle body)	TE542
40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 (swap body) flat 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196	87 9195	axle body)	re537
40t 2 axle caisse mobile 44 87 9195 000. (swap body) flat 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 80t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 80t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196	87 4741 001 - 33 87 4741	90t bogie hooded flat wagon	1 4 4
90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 40t 2 axle caisse mobile 44 87 9195 000. 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196	87 4741	90t bogie "easyloader" curtain sided flat wagon	PE691
90t bogie "easyloader" curtain 33 87 4741 000. sided flat wagon 33 87 4741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 90t 2 axle caisse mobile 44 87 9195 000. 40t 2 axle caisse mobile 43 87 9195 000. 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196	87 4746 012 - 33 87 4746	84t bogie "easyloader" curtain sided flat wagon	PE672
84t bogie "easyloader" curtain 33 87 4746 012 - 33 87 4745 sided flat wagon 33 87 4741 000. 387 4741 90t bogie "easyloader" curtain 33 87 4741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 40t 2 axle caisse mobile 44 87 9195 000. 43 87 9196 000 43 87 9196 40t 2 axle caisse mobile 43 87 9196 000 43 87 9196 000 43 87 9196 9196 40t 2 axle caisse mobile 43 87 9196 020 43 87 9196 9196 9196 9196 9196 9196 9196 9196 9196 9196 9196 9196 9	87 4420	30t 2 axle container flat	PE573
30t 2 axle container flat 23 87 4420 000. 84t bogie "easyloader" curtain 33 87 4746 012 - 33 87 4741 90t bogie "easyloader" curtain 33 87 4741 000. 90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 4741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 9741 001 - 33 87 4741 90t bogie hooded flat wagon 33 87 9795 000. 40t 2 axle caisse mobile 44 87 9195 000. 40t 2 axle caisse mobile 43 87 9195 000. 40t 2 axle caisse mobile 43 87 9196 000 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196 40t 2 axle caisse mobile 43 87 9196 020 - 43 87 9196	83 87 4739 000 - 83 87 4739	80t bogie "debach vit" curtain sided flat wagon	PE545
5 80t bogie "debach vit" curtain 83 87 4739 000 - 83 87 4739 8 30t 2 axle container flat 23 87 4420 000. 8 4t bogie "easyloader" curtain 33 87 4746 012 - 33 87 4746 8 4t bogie "easyloader" curtain 33 87 4741 000. 33 87 4741 000. 9 00t bogie "easyloader" curtain 33 87 4741 000. 33 87 4741 000. 9 00t bogie "easyloader" curtain 33 87 4741 000. 33 87 4741 000. 9 90t bogie hooded flat wagon 33 87 4741 001. 33 87 4741 9 04 2 87 9195 000. 4741 8 04 14 87 9195 000. 4741 8 40 2 87 9195 000. 43 87 9195 9196 8 404 87	Vehicle Numbers	Description	iagram
Image: Description Vehicle Numbers B0t bogie "debach vit" curtain 83 87 4739 000 - 83 87 4739 B0t bogie "debach vit" curtain 83 87 4420 000. 83 87 4746 B0t bogie "easyloader" curtain 33 87 4746 012 - 33 87 4746 B0t bogie "easyloader" curtain 33 87 4741 000. 33 87 4741 000. B0t bogie "easyloader" curtain 33 87 4741 001 33 87 4741 000. 4741 B0t bogie hooded flat wagon 33 87 4741 001 33 87 4741 001 33 87 4741 B0t bogie hooded flat wagon 33 87 4741 001 33 87 4741 B0t bogie flat 33 87 4741 001 33 87 4741 001 35 4741 001 37 4741 B0t bogie hood	Conditions	S	LAT WAGON
AGGONSExchange Conditions 23,33,43,43,43,43,43,43,43,43,43,43,43,43	Country 87	NATIONAL RAILWAYS (SNCF)	FRENCH N
WCH INTIONAL RAILWAYS (SNCF) Country MATIONAL RAILWAYS (SNCF) Exchange Conditions 23,33,43,43,43,43,43,43,43,43,43,43,43,43		00K 34U	

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Issue 1

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FRENCH NATIONAL RAILWAYS (SNCF)

Country 87

31

Exchange Condition

WELL WAGONS

DiagramDescriptionIXE39366t bogie well wagon

Vehicle Numbers

Diagram Book 340	ok 340	Issue 1
BELGIAN N	BELGIAN NATIONAL RAILWAYS (B)	Country 88
TANK WAGONS		Exchange Condition 23.
Diagram	Description	Vehicle Numbers
ICE174	37t 2 axle tank wagon	23 88 7194 000.
ICE425	40t 2 axle tank wagon	23 88 7499 001, 23 88 7499 004, 23 88 7400 005
		23 88 7499 007 - 23 88 7499 010.

Original diagrams courtesy of Chris Dugdale, 2016 (visit http://www.barrowmoremrg.co.uk)

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DELIGIAN	ICI CIEMATEN FRANCTEM	Country 88	
FLAT WAGONS	201	Exchange Condition 21.	
	Description	Vehicle Numbers	
	40t 2 axle flat wagon	21 88 4140 101 - 21 88 4140 199.	
	38.7t 2 axle 3 plank flat	21 88 4140 200 - 21 88 4140 299.	
			•

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Diagram Book 340

Issue 1

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BELGIAN NATIONAL RAILWAYS (B)

Country 88

VANS		Exchange Conditions 04,21.
Diagram	Description	Vehicle Numbers
IIE299	40t 2 axle refrigerator van	04 88 8092 000 - 04 88 8092 199.
IIE300	36t 2 axle refrigerator van	04 88 8089 983, 04 88 8089 985, 04 88 8089 988 - 04 88 8089 998.
IIE326	36t 2 axle refrigerator van	04 88 8091 002 - 04 88 8091 008.
ILE266	40t 2 axle van	21 88 2390 034, 21 88 2390 036 - 21 88 2390 097.
ILE479	40t 2 axle van	21 88 5799 000 - 21 88 5799 049.
IME035	32t 2 axle van	21 88 2140 000 - 21 88 2140 199.
IME036	32t 2 axle van	21 88 2140 201 - 21 88 2140 224.
IME037	32t 2 axle van	21 88 2140 406 - 21 88 2140 409, 21 88 2140 412 - 21 88 2140 415, 21 88 2140 417, 21 88 2140 418, 21 88 2140 421, 21 88 2140 418,

24S2E/3732g/42

Country 88 Exchange Condition 21.	<u>Vehicle Numbers</u> 21 88 6094 000 - 21 88 6094 019.				
BELGIAN NATIONAL RAILWAYS (B) Open wagons	Diagram Description IOE377 40t 2 axle high sided open			· · · · · · · · · · · · · · · · · · ·	

Diagram Book 340

Issue 1

BELGIAN NATIONAL RAILWAYS (B)

Country 88

Exchange Condition 33.

Vehicle Numbers

80t bogie hopper

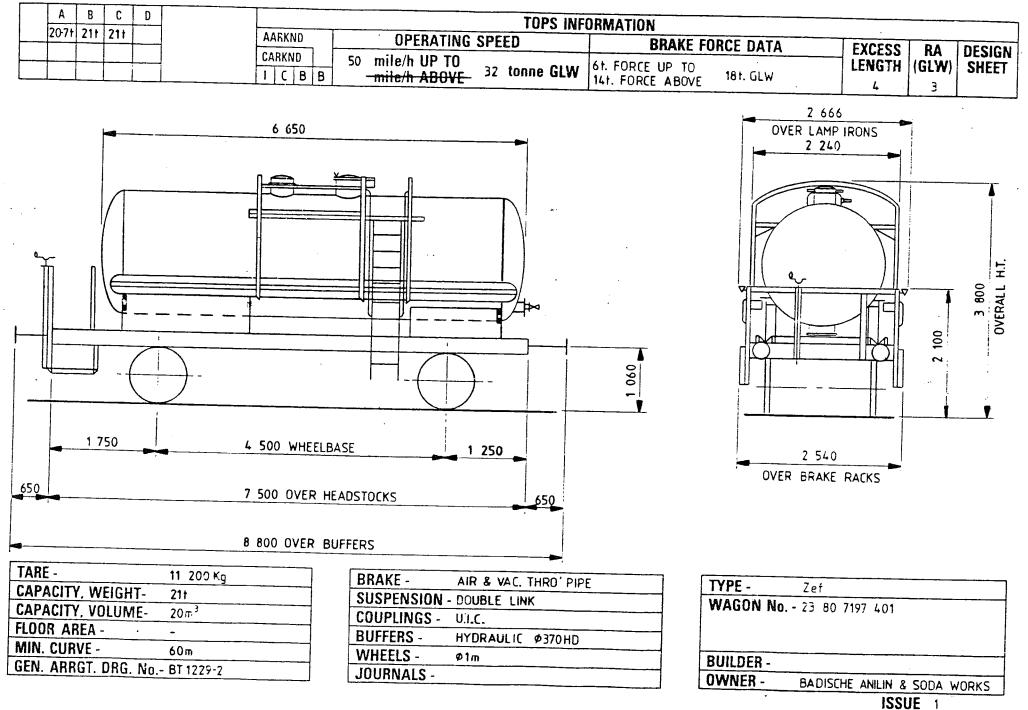
Description

Diagram

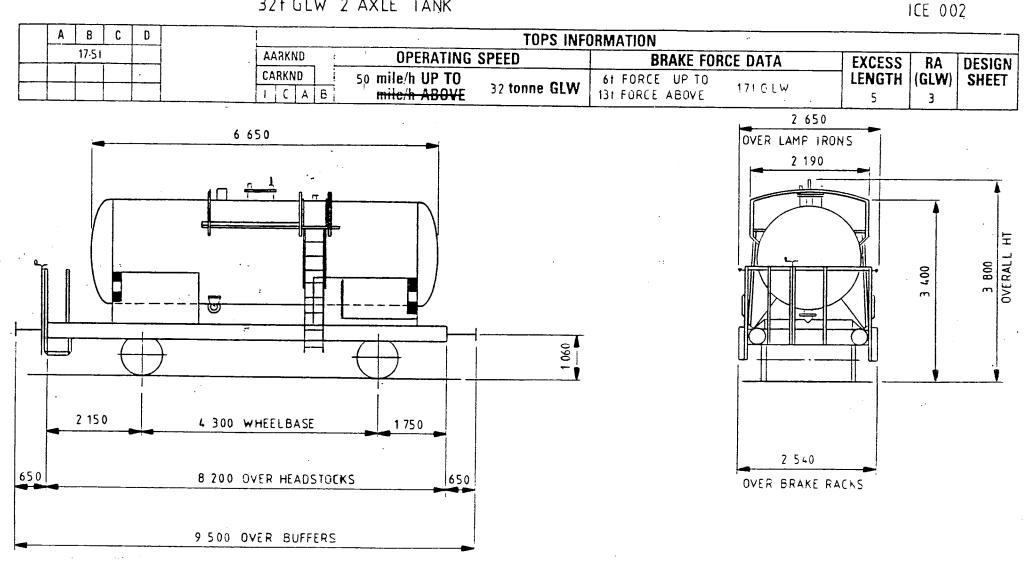
IPE442

HOPPERS

321. GLW. 2 AXLE TANK



321 GLW 2 AXLE TANK



TARE -	14 000 Kg
CAPACITY, WEIGHT-	17.51
CAPACITY, VOLUME-	15 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- BT 250-2

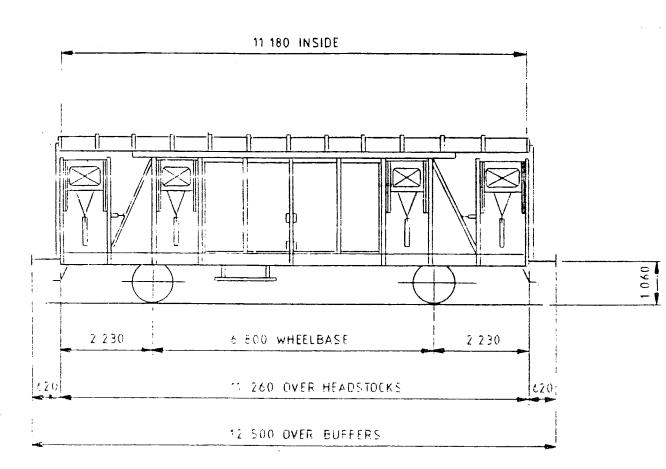
BRAKE -	AIR
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC #370 HD
WHEELS -	Ø1 000
JOURNALS -	

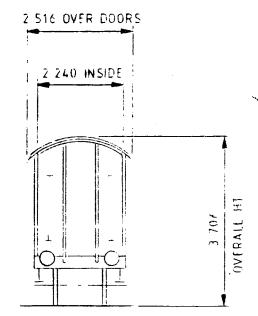
		100			
OWNER -	BADISCH	E ANIUN	8	SODA	WOR
BUILDER -					
WAGON N	0 23 80 7	391 722			
TYPE -	Zcfs				

39 t GLW 2 AXLE VAN

TOPS INFORMATION

191231,271	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS RA DESIGN
S 19 23 + 27 +	CARKND	60 mile/h UP TO 39 tonne GLW	5 + FORCE UP TO 23 + GIW	LENGTH (GLW) SHEET
	I M B C	mich ADOVE 29 tonne GLW	18 T FORCE ABOVE	10 6





TARE -	12 000 Kg
CAPACITY WEIGHT-	27 1
CAPACITY VOLUME	49 m ³
FLOOR AREA -	25 m ²
MIN CURVE-	60 m
GEN A HRGT DPG MC	1 091 21 1

-

BRAKE -	AIR & VAC THRO' PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC
WHEELS -	Q. 1 m
JOURNALS	2 130

TYPE -	Hts
WAGON No	000 - 070
21 80 2140	072 082 084 - 149
BUILDER -	WAGCON FAERIK
OWNER -	<u>D</u> E

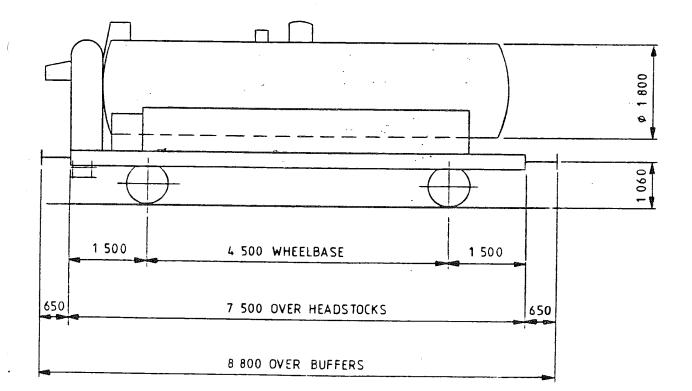
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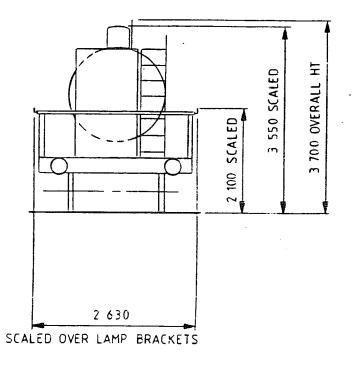
IME 006

A E C L

33 f GLW 2 AXLE TANK

		Α	В	- C		2	•		TOPS INFORMATION			
				22.7		_		AAP.KND	OPERATING SPEED BRAKE FORCE DATA	EXCESS	RA	DESIGN
	5 2	1.41	22.7	227	<u>t </u>			CARKND	60 mile/h UP TO 33 tonne GLW 10 + FORCE UP TO 21 + GLW	LENGTH		
L					Ĺ			ICBB	mile/h-ABOVE 33 tonne GLW 17 + FORCE ABOVE 21 + GLW	. 4	4	



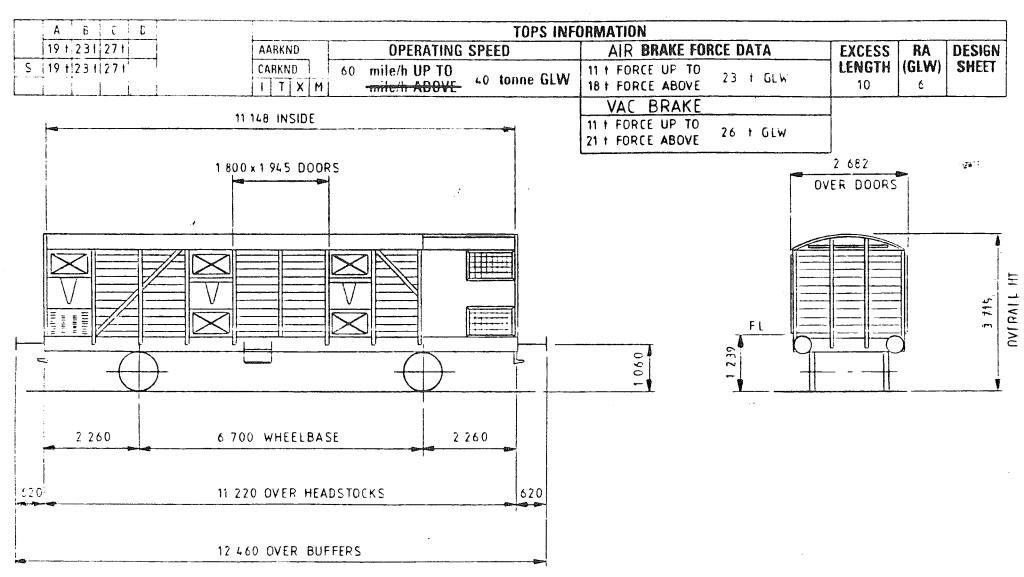


TARE -	10 600 Kg					
CAPACITY, WEIGHT-	22·7†					
CAPACITY, VOLUME-	15 m ³					
FLOOR AREA -	_					
MIN. CURVE - 60 m						
GEN. ARRGT. DRG. No WH167						

BRAKE -	AIR & VAC THRO' PIPE
SUSPENSION	- SINGLE LINK
COUPLINGS -	U. I.C
BUFFERS -	HYDRAULIC Ø 370 HD
WHEELS -	Ølm
JOURNALS -	

TYPE -	Zfkks
WAGON No	23 80 7490 000, 001
	•
SUILDER -	HULS CHEMICAL WORKS
BUILDER - OWNER -	HULS CHEMICAL WORKS

40 1 GLW 2 AXLE VAN



TARE -	12 700 Kg
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME-	53 5 m ⁻³
FLOOR AREA -	26 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	01 ⁸ 106

DUAL
DOUBLE LINK
ULC
HYDRAULIC Ø 460
¢1006

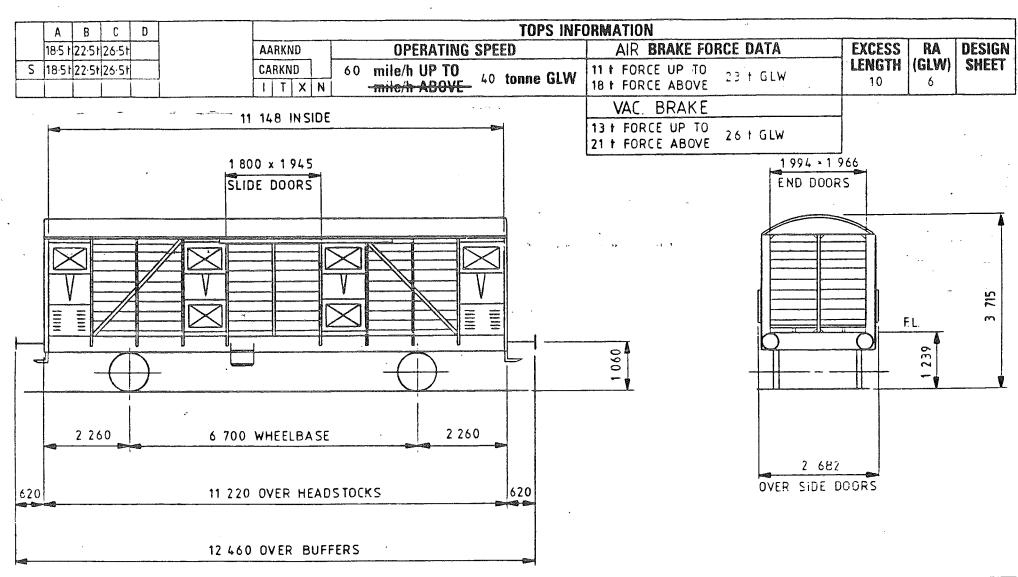
TYPE -	Hfhs
WAGON No.	- 24 71 2148 (000 - 395 693 - 990,992
BUILDER -	LINKE, HOFMANN, EUSCH
OWNER -	TRANSFESA

ISSUE 1

ITE 010

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40 t GLW 2 AXLE VAN



TARE -	13 100 Kg
CAPACITY, WEIGHT-	26.51
CAPACITY, VOLUME-	53·5 m ³
FLOOR AREA -	26 m ²
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	04D

BRAKE -	DUAL
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U. I. C.
BUFFERS -	HYDRAULIC Ø 460
WHEELS -	ø1006
JOURNALS -	

TYPE -	Hcfhs
WAGON No.	- 24 71 2147 000 - 487
BUILDER -	LINKE - HOFMANN - BUSCH
OWNER -	TRANSFESA

ISSUE 1

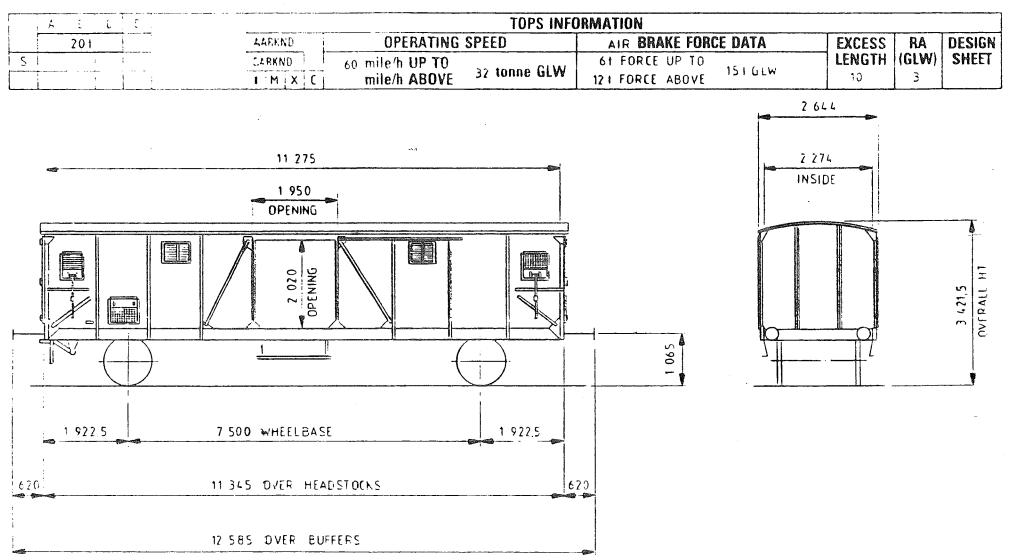
ITE 011

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321 GLW 2 AXLE VAN

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IME 035



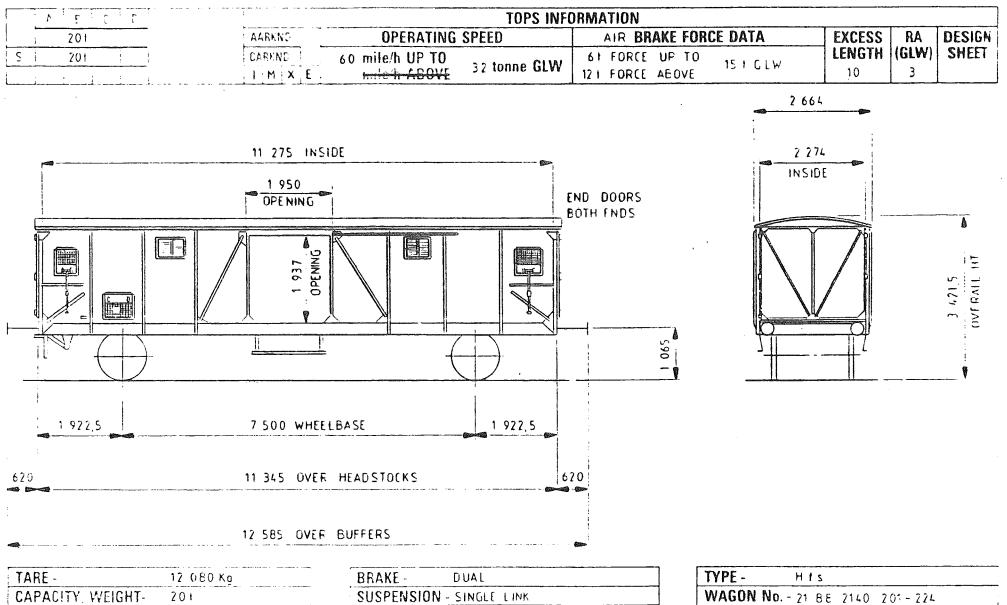
TARE -	12 080 Kg
CAPACITY, WEIGHT-	201
CAPACITY, VOLUME-	51.5 m ⁻³
FLOOR AREA -	25.6 m ²
MIN. CURVE -	in 0.5
GEN AREGT. DRG. No	-

BRAKE -	DUAL
SUSPENSION	SINGLE LINK
COUPLINGS -	U.I.C
BUFFERS -	HYERAULIC
WHEELS -	¢i (00
JOURNALS -	2 130

TYPE -	Hfs
WAGON No	- 21 88 2140 000-199
BUILDER -	
OWNER -	SN.CE
	ISSUE 1

321 GLW 2 AXLE VAN

IME 036



NGT	INCL
101	mee

BUILDER -OWNER - SN.CE

ISSUE 1

CAPACITY, VOLUME-FLOOF AREA -

GEN ARROT DEG NO

MIN. CURVE -

51 m⁻³

60 m

25.6 m²

HYDRAULIC

\$1000

COUPLINGS - U.I C

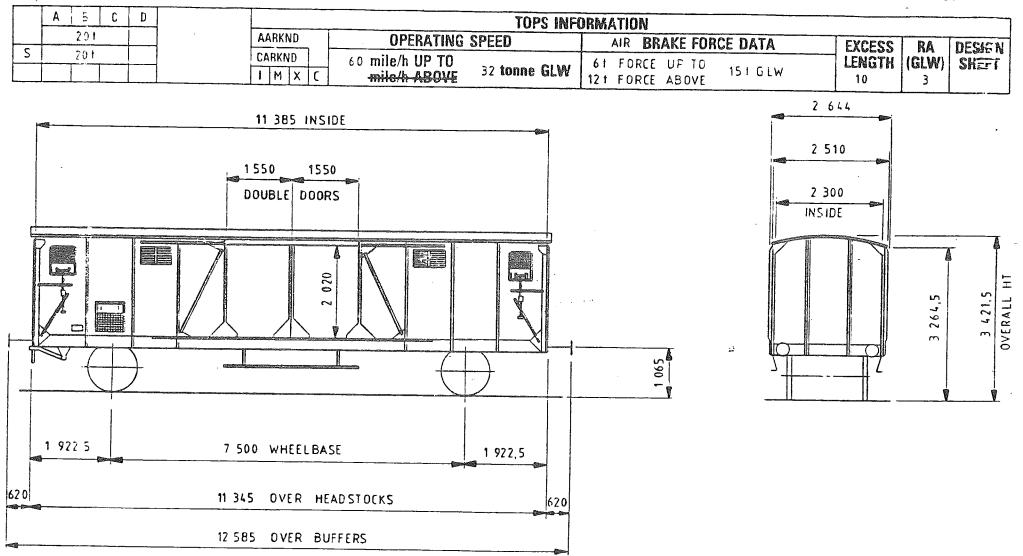
JOURNALS - Ø130

BUFFERS -

WHEELS -

321 GLW 2 AXLE VAN

IME 037



TARE -	12 000 Kg
CAPACITY, WEIGHT-	201
CAPACITY, VOLUME-	51 m ³ ·
FLOOR AREA -	25.63 m ²
MIN. CURVE -	60m
GEN. ARRGT. DRG. No.	-

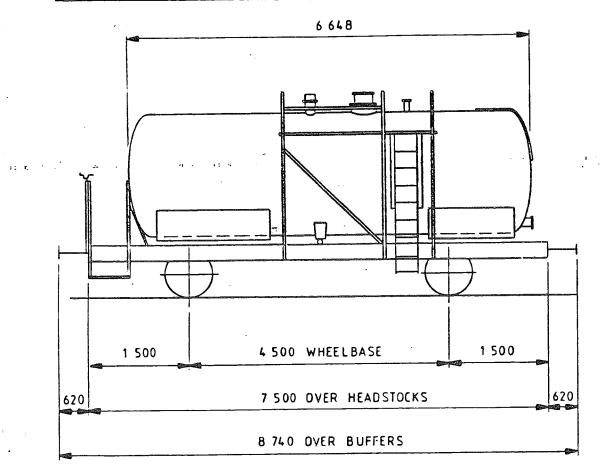
BRAKE -	DUAL	
SUSPENSION	- SINGLE LINK	
COUPLINGS -	U.I.C.	
BUFFERS -	HYDRAULIC	
WHEELS -	¢ 1 000	
JOURNALS -	Ø 130	

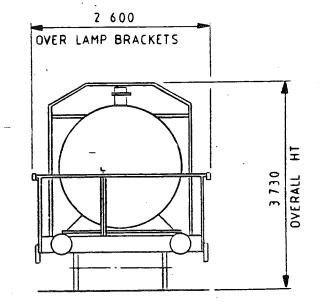
TYPE -	Hfs
WAGON No	21 88 2140 406 - 409, 412 - 415, 417, 418, 421, 422
BUILDER -	
OWNER -	SNCB
	ISSUE 1

401 GLW 2 AXLE TANK

ICE 038

	Т	A	В	C	D		TOPS INFORMATION							
1	f	185	122-51	26-5t		AARKND		OPERATING	SPEED	BRAKE FOR	CE DATA	EXCESS		DESIGN
S	1	18-51	t 22·5t	22 · 5t		CARKND	Γ	60 mile/h UP TO	36 tonne GLW	71 FORCE UP TO	231 GLW	LENGTH	(GLW)	SHEET
-			1			ICB	В	50 mile/h ABOVE	20 MING GLAA	181 FORCE ABOVE		4	6	





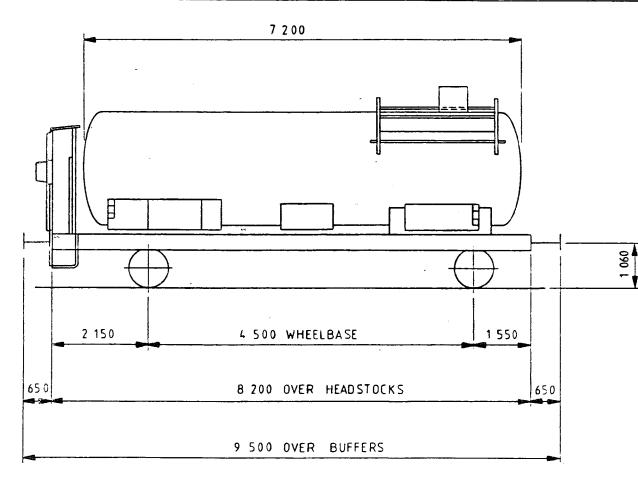
TARE -	13 500 Kg
CAPACITY, WEIGHT-	26.51
CAPACITY, VOLUME-	15 ៣ ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	BT 320-2

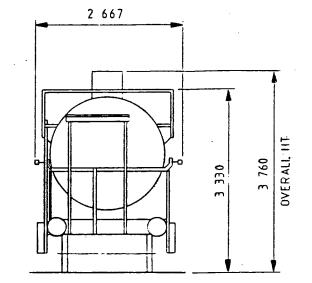
BRAKE -	AIR & VAC THRO PIPE
SUSPENSION	- SINGLE LINK
COUPLINGS -	
BUFFERS -	HYDRAULIC Ø370 HD
WHEELS -	Ø1 000
JOURNALS -	Ø 130

TYPE -	Zcfs		
WAGON No.	- 23 80 7391	721	
		<u></u>	
BUILDER -	B.A.S.F.		
BUILDER - OWNER -	B.A.S.F. D. B		

321 GLW 2 AXLE TANK

	Α	В	C	D			TOPS INFORMATION						
		161				AARXND	AARXND OPERATING SPEED BRAKE FORCE DATA EXCESS RA DESIGN						
	. [1	CARKND	50 mile/h UP TO	91 FORCE UP TO	LENGTH (GL	V) SHEET			
					1	ICAB	mile/h ABOVE 32 tonne GLW	171 FORCE ABOVE 211 GLW	5 3				





TARE -	15 425Kg
CAPACITY, WEIGHT-	16 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- BT 210-2

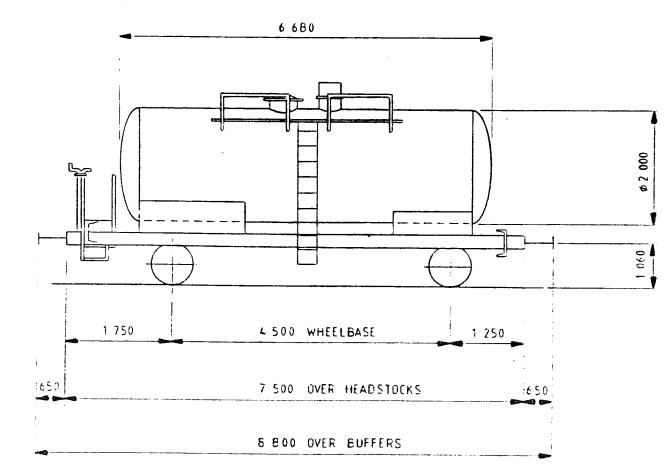
BRAKE -	AIR
SUSPENSION	- SINGLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø 370 HD
WHEELS -	Ø1 000
JOURNALS -	Ø130

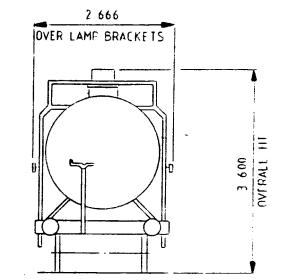
Zfgkk	
23 80 7288 000	
B. A. S. F.	 ,,
D. B.	·
	B. A. S. F.

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401 GLW 2 AXLE TANK

A B C D	TOPS INFORMATION								
221 261 301	AARKND OPERATING SPEED BRAKE FORCE DATA						RA	DESIGN	
	CARKND	50 mile/h UP TO		ST FORCE UP TO		LENGTH	(GLW)		
		mile: h ABOVE	40 tonne GLW	151 FORCE ABOVE	191 G L W	4	£		





TARE -	10 000 Kg
CAPACITY, WEIGHT-	30.
CAPACITY, VOLUME-	2:-3
FLOOR AREA -	
MIN. CURVE -	6.3-
GEN ARRGT DRG. No	- 57 123-2

BRAKE -	AIR
SUSPENSION	- SINGLE LINH
COUPLINGS -	U.I.C
BUFFERS -	HYDRAULIC # 370 HD
WHEELS -	æ 9 : 0
JOURNALS -	¢ 130

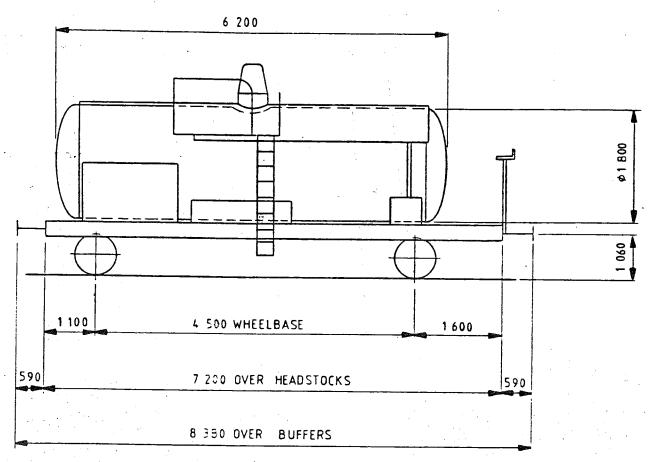
TYPE -	Zet
WAGON No.	- 23 80 7197 402
BUILDER -	E 4.S.F
OWNER -	D. B

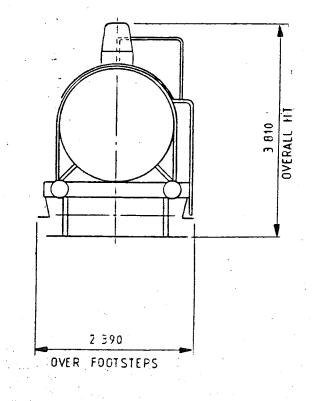
ISSUE 1

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321 GLW 2 AXLE TANK

	A	B	C	D	,		TOPS INFORMATION					
	 18·St	18.51	18.5	1 		AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN	
Ŀ						CARKND	50 mile/h UP TO mile/h ABOVE 32 tonne GLW	BIFORCE UP TO 26 FGLW 21 FORCE ABOVE 26 FGLW	LENGTH	(GLW) 3	SHEET	





ICE 079

TARE -	13 500Kg
CAPACITY, WEIGHT-	18-51
CAPACITY, VOLUME-	14 m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No.	- 134 0

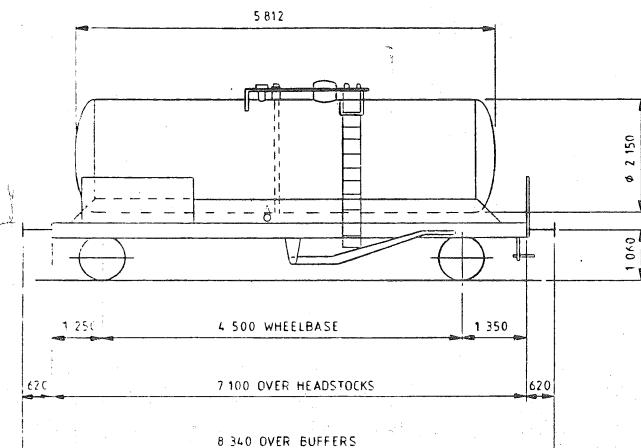
BRAKE -	AIR & VAC, THRO PIPE	
SUSPENSION	- SINGLE LINK	
COUPLINGS -	U.I.C.	
BUFFERS -	HYDRAULIC Ø 370 HD	
WHEELS -	Ø1000	
JOURNALS -	Ø 130	

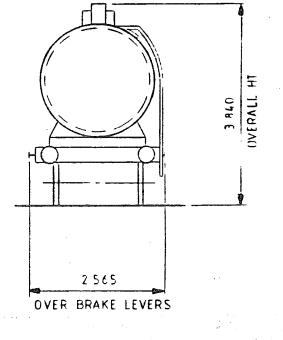
TYPE -	Zfgkk			1
WAGON N	D 21 83 7.288	000		
BUILDER -		•		
OWNER -	SICEDISON			
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40 + GLW 2 AXLE TANK

A E C D		TOPS INFORMATION			
19 8t 23 5t 27 8t	AARKND	OPERATING SPEED BRAKE FORCE DATA	EXCESS		DESIGN
S 19 8123 8123 81	CARKND	60 mile/h UP TO 36 tonne GLW 5 + FORCE UP TO 19 + GLW	LENGTH	(GLW)	SHEET
	ICBB	50 mile/h ABOVE 36 tonne GLW 15 + FORCE ABOVE 19 + GLW	4	6	





ICE 081

TARE -	12 200 Kg
CAPACITY, WEIGHT-	28-2 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA -	
MIN CURVE -	60 m
GEN AFFOT DRG. No	- 8502 5

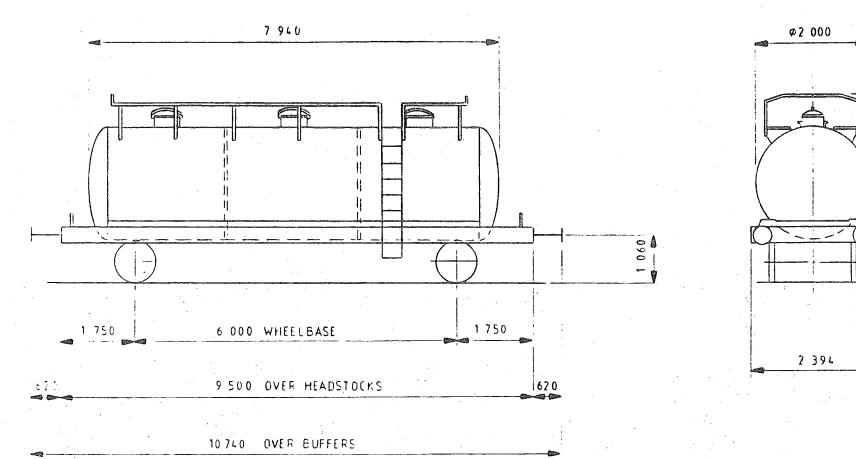
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2 ¹	
BRAKE -	AIR & VAC THRO' PIPE
SUSPENSION	
COUPLINGS -	UIC
BUFFERS -	HYDRAULIC
WHEELS -	\$P1 000
JOURNALS -	ø 130

TYPE -	Zefs	-		
WAGON No.	- 23 87 739	7 500		
BUILDER -	FAUVET -	GIREL	·	
OWNER -	Roquette		· . ·	
		ISSUE	1	

401 GLW 2 AXLE TANK

A B C D		TOPS INFORMATION					
19-81 23-81 27-81	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN	
S 119-8 1 23-81 23-81	CARKND	60 mile/h UP TO	SI FORCE UP TO 191 GLW	LENGTH	(GLW)	SHEET	
	ICXW	50 mile/h ABOVE 36 tonne GLW	151 FORCE ABOVE	7	£	<u> </u>	



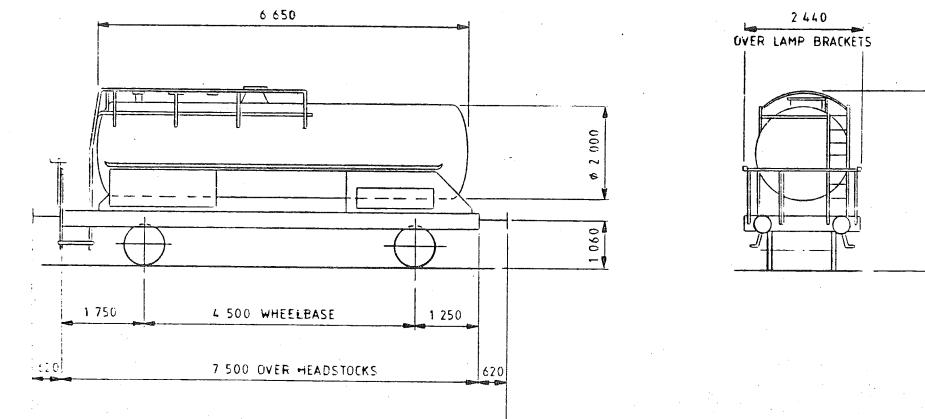
TARE -	12 200 Kg
CAPACITY, WEIGHT-	27.81
CAPACITY, VOLUME-	24 m ³
FLOOR AREA -	·
MIN. CURVE -	60 m
GEN ARRGT. DRG. No.	- 7008.01 01

BRAKE -	DUAL	
SUSPENSION	-DOUBLE LINK	
COUPLINGS -	U.I.C.	
BUFFERS -	HYDRAULIC ¢460HD	
WHEELS -	¢1 U06	1
JOURNALS -	¢130	

TYPE -	Z.f.s.		1997) 1997)	
WAGON N	D. -24 80 7390	100-101		· .
•				
BUILDER -	WAGGONFAEF	-IK	· · · · · · · · · · · · · · · · · · ·	
BUILDER - OWNER -	WAGGONFAEF	-IK		

3 680 OVERALL HT 40 t GLW 2 AXLE TANK

<u>1 3 3 4</u>	·	TOPS INFORMATION				
207124712871	ALENND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS	RA	DESIGN
5 207124712471	CAFIND	60 mile/h UP TO	5 + FORCE UP TO	LENGTH	(GLW)	SHEET
l <u>l</u>	ILIAB	50 mile/h ABOVE 36 tonne GLW	15 T FORCE ABOVE 19 T GLW	4	6	



8 740 OVER EUFFERS

TARE -	11 300 Kg
CAPACITY, WEIGHT-	287t
CAPACITY, VOLUME-	¹ ה 19
FLOOR AREA -	
MIN. CURVE -	60 m
GEN ARRGT. DRG. No	- H 7:00 - 2
	the second

BRAKE -	AIR	
SUSPENSION -	DOUBLE LINK	· · · ·
COUPLINGS -	UIC	
BUFFERS -	HYDRAULIC	
WHEELS -	ø1m	· · · · · · · · · · · · · · · · · · ·
JOURNALS -	¢ 130	

TYPE -	Zcfs	
WAGON No.	- 23 80 7391 700	_
BUILDER -	HULS	

ISSUE 1

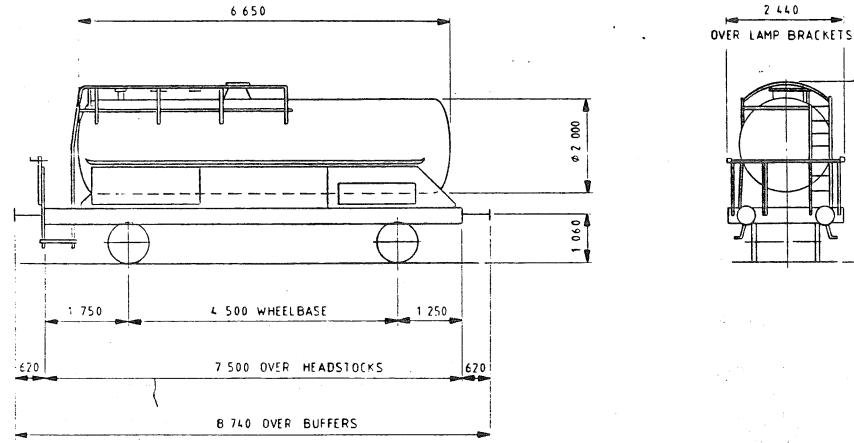
ICE 10.9

3 780 OVERALL HT

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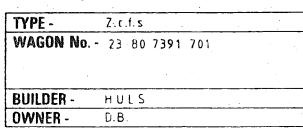
401 GLW 2 AXLE TANK

A	Б	T	C	D		TOPS INFORMATION						
21.	31 253	129	9·3 t		AARKND	OPERATING	SPEED	BRAKE FO	RCE DATA	EXCESS	RA	DESIGN
S 21-3	1253	12	5-31		CARKND	60 mile/h UP TO	Di Anno CINA	51 FORCE UP TO	191 GLW	LENGTH	(GLW)	SHEET
					 ICAB	50 mile/h ABOVE	36 tonne GLW	151 FORCE ABOVE	171 ULN	4	6	



TARE -	10 650 Kg
CAPACITY, WEIGHT-	29.31
CAPACITY, VOLUME-	19-m ³
FLOOR AREA -	
MIN. CURVE -	60 m
GEN. ARRGT. DRG. No	- H 7602.2

BRAKE -	AIR
SUSPENSION	-DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC Ø370 HD
WHEELS -	Ø1 000
JOURNALS -	Ø130



ISSUE 1

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ICE 110

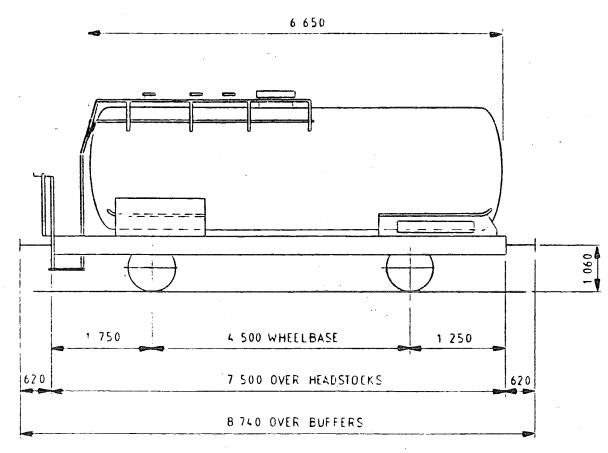
OVERALL HT 3 780

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401 GLW 2 AXLE TANK

	TOPS INFORMATION							
18-41, 22-41, 26-41	AARXND	OPERATING	SPEED	BRAKE FORC	E DATA	EXCESS		DESIGN
5 18-41 22-41	CARKND	60 mile/h UP TO	in town CINAL	61 FORCE UP TO	191 G L W	LENGTH	(GLW)	SHEET
	ICEE	50 mile/h ABOVE	40 tonne GLW	151 FORCE ABOVE	191010	4	ć	



TARE -	13 6 0 0 K g
CAPACITY, WEIGHT	26.41
CAPACITY, VOLUME.	19-4 m ³
FLOOR AREA -	
MIN. CURVE -	60 n
GEN. ARPGT. DEG. St.	H7598-2

Λ

BRAKE -	AIR & VAC THRO PIPE
SUSPENSION -	DOUBLE LINK
COUPLINGS -	U.I.C.
BUFFERS -	HYDRAULIC #370 HD
WHEELS -	¢;000
JOURNALS -	2 130

TYPE -	Zcts				
WAGON No	23 8	0 7391	702		1.1
		· .	•		
BUILDER -	HULS	CHEM	ICAL	WOF+ S	<u></u>
OWNER -	D.E				
			ISS	UE :	

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ICE 111

2 440

\$2 000

OVER LAMP BRACKETS

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