

Foreign Administration

International Ferry Vehicles

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Diagram Book No. 340

Part One



BUDAPEST LOCAL RAILWAYS (BHEV)		Country 44
VANS		Exchange Condition 21
<u>Diagram</u>	Description	Vehicle Numbers
IME 420	35t GLW INSULATED VAN	21 44 2197 001-008, 010, 011, 013-026
IME 636	35t GLW INSULATED VAN	21 44 2197 000, 009, 012

CZECHOSLOVAK STATE RAILWAYS (CSD)		Country 54
VANS		Exchange Condition 21
Diagram	Description	Vehicle Numbers
ILE 353	40t GLW 2 AXLE VAN	21 54 2380 000-062, 064-099

HUNGARIAN STATE RAILWAYS (MAV)		Country 55	
VANS		Exchange Condition 01	
<u>Diagram</u>	Description	Vehicle Numbers	
IIE 183	36t GLW REFRIGERATOR VAN	01 55 8480 000, 006-098	
IIE 620	36t GLW REFRIGERATOR VAN	01 55 8480 001-005	
IIE 621	36t GLW REFRIGERATOR VAN	01 55 8580 000, 006-99	
IIE 622	36t GLW REFRIGERATOR VAN	01 55 8580 001-005	

SPANISH NATIONAL RAILWAYS (RENFE)		Country 71
<u>VANS</u>		Exchange Condition 24
<u>Diagram</u>	Description	Vehicle Numbers
ITE 575	40t GLW 2 AXLE VAN	24 71 2396 000-199
ITE 584	40t GLW 2 AXLE VAN	24 71 2396 200-304
ITE 673	40t GLW 2 AXLE VAN	24 71 2380 000

YUGOSLAV RAILWAYS (JZ)		Country 72
VANS		Exchange Condition 21
<u>Diagram</u>	Description	Vehicle Numbers
IME 199	36t GLW 2 AXLE VAN	21 72 2191 000-099
ILE 415	35.5t GLW 2 AXLE VAN	21 72 2390 000-064

SWEDISH STATE RAILWAYS (SJ)

Country 74

VANS

Exchange Condition 23

Diagram

Description

Vehicle Numbers

IZE 763

80t GLW 2x2 AXLE VAN

23 74 2792 000

GERMAN FEDERAL RAILWAY (DB)

Country 80

ATOMIC FLASK WAGON

Exchange Condition 33

Diagram

Description

Vehicle Numbers

IQE 697

128t GLW ATOMIC FLASK WAGON

33 80 9987 000, 001

GERMAN FEDERAL RAILWAY (DB)

Country 80

COIL CARRIERS

Exchange Condition 33

Diagram

Description

Vehicle Numbers

IHE 587

90t GLW TELESCOPIC HOOD COIL CARRIER

33 80 4667 00-049

GERMAN FEDERAL RAILWAY (DB)		Country 80	
COIL CARRIERS		Exchange Conditions 33, 83	
<u>Diagram</u>	Description	Vehicle Numbers	
IGE 502	80t GLW BOGIE FLAT	33 80 4742 000-049	
IGE 557	80t GLW BOGIE FLAT	33 80 4647 000-049	
IGE 670	90t GLW BOGIE FLAT	33 80 4736 000-049	
IGE 726	90t GLW BOGIE FLAT	83 80 4736 100-103, 105-149	

GERMAN FEDERAL RAILWAY (DB)		Country 80	
OPEN WAGONS		Exchange Condition 21	
Diagram	Description	Vehicle Numbers	
IFE 259	40t GLW 2 AXLE OPEN	21 80 4142 049, 098, 120	
IFE 568	40t GLW 2 AXLE LOWSIDE OPEN	21 80 4142 001, 008, 010-013, 015-019, 024	

GERMAN FEDERAL RAILWAY (DB)		Country 80
TANKS		Exchange Conditions 23, 24
Diagram	Description	Vehicle Numbers
IBE 008	33t GLW 2 AXLE TANK	23 80 7490 000
IBE 091	40t GLW 2 AXLE TANK	24 80 7390 400
IBE 110	40t GLW 2 AXLE TANK	23 80 7391 701
IBE 112	40t GLW 2 AXLE TANK	23 80 7398 600
IBE 141	33t GLW 2 AXLE TANK	23 80 7191 701, 702 23 80 7391 718-720
IBE 154	31t GLW 2 AXLE TANK	23 80 7190 008
IBE 217	26t GLW 2 AXLE TANK	23 80 7395 002, 003, 005
IBE 224	37t GLW 2 AXLE TANK	23 80 7395 000, 001
IBE 243	33t GLW 2 AXLE TANK	23 80 7491 401
IBE 273	40t GLW 2 AXLE TANK	23 80 7391 000-004 23 80 7398 001-005
IBE 274	40t GLW 2 AXLE TANK	23 80 7391 400

GERMAN FEDERAL RAILWAY (DB)		Country 80
TANKS (Continued)		Exchange Condition 23
IBE 281	40t GLW 2 AXLE TANK	23 80 7398 006, 007
IBE 289	40t GLW 2 AXLE TANK	23 80 7390 405
IBE 302	40t GLW 2 AXLE TANK	23 80 7391 016
IBE 307	40t GLW 2 AXLE TANK	23 80 7394 000
IBE 317	40t GLW 2 AXLE TANK	23 80 7391 708-710
IBE 319	40t GLW 2 AXLE TANK	23 80 7398 603 23 80 7391 711-715, 717
IBE 321	40t GLW 2 AXLE TANK	23 80 7391 012, 013
IBE 323	40t GLW 2 AXLE TANK	23 80 7390 406, 407
IBE 336	40t GLW 2 AXLE TANK	23 80 7391 703-707 23 80 7398 401-405
IBE 340	40t GLW 2 AXLE TANK	23 80 7390 408-416
IBE 350	34.5t GLW 2 AXLE TANK	23 80 7492 001
IBE 355	40t GLW 2 AXLE TANK	23 80 7391 017-023 23 80 7491 000-012

GERMAN FEDERAL RAILWAY (DB)		Country 80
TANKS (Continued)		Exchange Conditions 23, 33
<u>Diagram</u>	Description	Vehicle Numbers
IBE 356	40t GLW 2 AXLE TANK	23 80 7391 024, 025
IBE 371	40t GLW 2 AXLE TANK	23 80 7398 400
IBE 372	40t GLW 2 AXLE TANK	23 80 7391 026-034
IBE 374	40t GLW 2 AXLE TANK	23 80 7390 035-037, 039-042, 044, 045
IBE 376	36t GLW 2 AXLE TANK	23 80 7187 000
IBE 378	40t GLW 2 AXLE TANK	23 80 7391 046
IBE 447	40t GLW 2 AXLE TANK	23 80 7391 047, 048
IBE 451	40t GLW 2 AXLE TANK	23 80 7398 027-036
IBE 463	40t GLW 2 AXLE TANK	23 80 7398 037-046
ICE 467	80t GLW BOGIE TANK	33 80 7892 000-010, 013, 036 33 80 7894 011-019

GERMAN FEDERAL RAILWAY (DB)		Country 80
TANKS (Continued)		Exchange Conditions 23, 24, 33
Diagram	Description	Vehicle Numbers
IBE 469	40t GLW 2 AXLE TANK	23 80 7391 053-056
ICE 472	80t GLW BOGIE TANK	33 80 7995 000-002
IBE 489	40t GLW 2 AXLE TANK	23 80 7391 057
IBE 500	40t GLW 2 AXLE TANK	23 80 7398 054-062
ICE 508	80t GLW BOGIE TANK	33 80 7895 010-012
IBE 509	40t GLW 2 AXLE TANK	23 80 7394 010-018
ICE 511	80t GLW BOGIE TANK	33 80 7995 003-012
ICE 519	80t GLW BOGIE TANK	33 80 7998 000-004
ICE 524	80t GLW BOGIE TANK	33 80 7995 500-515
ICE 527	80t GLW BOGIE TANK	33 80 7891 002, 003
ICE 534	80t GLW BOGIE TANK	33 80 7794 000-004
IBE 547	40t GLW 2 AXLE TANK	23 80 7398 066

GERMAN FEDERAL RAILWAY (DB)		Country 80
TANKS (Continued)	Ех	schange Conditions 23, 24, 33, 34
Diagram	Description	Vehicle Numbers
ICE 548	80t GLW BOGIE TANK	33 80 7998 900-904
IBE 558	40t GLW 2 AXLE TANK	24 80 7479 000-009
IBE 563	40t GLW 2 AXLE TANK	23 80 7391 058, 059
IBE 564	40t GLW 2 AXLE TANK	24 80 7495 000-099
IBE 571	40t GLW 2 AXLE TANK	24 80 7393 000, 001, 003-007, 009
IBE 572	40t GLW 2 AXLE TANK	23 80 7398 077
IBE 577	40t GLW 2 AXLE TANK	23 80 7491 013
ICE 579	90t GLW BOGIE TANK	34 80 7897 000-019
IBE 580	40t GLW 2 AXLE TANK	23 80 7495 010-019
ICE 588	40t GLW 2 AXLE TANK	23 80 7391 070
IBE 594	40t GLW 2 AXLE TANK	23 80 7392 001, 002
IBE 600	33t GLW 2 AXLE TANK	23 80 7490 002

GERMAN FEDERAL RAILWAY (DB) TANKS (Continued)		Exchange Conditions 23, 33
IBE 626	40t GLW 2 AXLE TANK	23 80 7088 517
IBE 630	40t GLW 2 AXLE TANK	23 80 7391 005, 007, 008, 010, 011
IBE 633	40t GLW 2 AXLE TANK	23 80 7394 002, 004-009
IBE 634	40t GLW 2 AXLE TANK	23 80 7498 000-003
IBE 641	40t GLW 2 AXLE TANK	23 80 7398 016, 018-024
IBE 647	32t GLW 2 AXLE TANK	23 80 7277 010
IBE 650	32t GLW 2 AXLE TANK	23 80 7193 007, 009
ICE 674	90t GLW BOGIE TANK	33 80 7793 000-003, 005, 007, 009-012, 014-019
ICE 676	80t GLW BOGIE TANK	34 80 7899 000, 001, 003-009
ICE 679	90t GLW BOGIE TANK	33 80 7794 027-030, 035, 036
ICE 681	80t GLW BOGIE TANK	33 80 7794 015, 016

GERMAN FEDERAL RAILWAY (DB) TANKS (Continued)		Exchange Condition 23, 33	
IBE 687	45t GLW 2 AXLE TANK	23 80 7495 020, 022	
ICE 709	80t GLW BOGIE TANK	33 80 7934 003	
ICE 711	80t GLW BOGIE TANK	33 80 7934 006	
ICE 712	80t GLW BOGIE TANK	33 80 7934 400, 402, 403	
ICE 713	80t GLW BOGIE TANK	33 80 7934 000	
ICE 714	80t GLW BOGIE TANK	33 80 7934 401	
ICE 716	80t GLW BOGIE TANK	33 80 7934 404	
ICE 717	80t GLW BOGIE TANK	33 80 7934 007	
ICE 718	80t GLW BOGIE TANK	33 80 7996 001-010	
ICE 730	80t GLW BOGIE TANK	33 80 7891 205- 207	
IBE 731	40t GLW 2 AXLE TANK	23 80 7391 009	
ICE 748	80t GLW BOGIE TANK	33 80 7894 020-030	
ICE 777	80t GLW BOGIE TANK	33 80 7894 031-057	
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GERMAN FEDERAL RAILWAY (DB)		Country 80
VANS		Exchange Conditions 21, 23, 24, 33
Diagram	Description	Vehicle Numbers
IME 006	39t GLW 2 AXLE VAN	21 80 2140 131, 140
IME 227	40t GLW 2 AXLE VAN	21 80 0795 089 21 80 5795 004, 006, 014, 061, 085, 093
IWE 471	80t GLW BOGIE VAN	33 80 2796 000-013, 015-090, 092-139
IWE 476	80t GLW BOGIE VAN	33 80 2797 500-579
IWE 481	80t GLW BOGIE VAN	33 80 2797 000-031, 033-138, 140-170, 172-211
IWE 512	80t GLW BOGIE VAN	33 80 2797 580-633, 650-699
IVE 514	45t GLW 2 AXLE VAN	23 80 2398 502-647 23 80 2493 000, 001
IWE 551	80t GLW BOGIE VAN	33 80 2797 700-734 33 80 2798 000-014
ITE 552	40t GLW 2 AXLE VAN	24 80 2398 000-099
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GERMAN FEDERAL RAILWAY (DB)		Country 80	
<u>VANS</u> (Continued)		Exchange Conditions 21, 23, 33, 34, 83	
Diagram	Description	Vehicle Numbers	
IWE 576	90t GLW BOGIE VAN	33 80 4741 000	
IWE 593	90t GLW BOGIE VAN	33 80 2693 000-049	
IME 655	39t GLW 2 AXLE VAN	21 80 2140 008, 148	
IVE 663	45t GLW 2 AXLE VAN	23 80 2492 000, 001	
IZE 668	90t GLW 2x2 AXLE VAN	23 80 2929 000-099	
IWE 690	90t GLW BOGIE VAN	83 80 4741 001-110, 148-159	
IWE 701	90t GLW BOGIE VAN	34 80 2693 050	
IZE 710	90t GLW 2x2 AXLE VAN	23 80 2929 100-149	
IWE 741	90t GLW BOGIE VAN	83 80 4741 111-147	
IWE 742	90t GLW BOGIE VAN	83 80 4741 161	
IZE 753	90t GLW 2x2 AXLE VAN	23 80 2929 150-199	

TANKS		Country 83	
		Exchange Condition 23	
<u>Diagram</u>	Description	Vehicle Numbers	
IBE 142	36t GLW 2 AXLE TANK	23 83 7197 016, 017	
IBE 170	35t GLW 2 AXLE TANK	23 83 7197 008-015	
IBE 177	36t GLW 2 AXLE TANK	23 83 7190 003-007	
IBE 220	36t GLW 2 AXLE TANK	23 83 7190 000, 23 83 7197 018, 019	
IBE 221	36t GLW 2 AXLE TANK	23 83 7190 001, 002 23 83 7197 020, 021	
IBE 225	40t GLW 2 AXLE TANK	23 83 7197 022, 023	
IBE 263	40t GLW 2 AXLE TANK	23 83 7197 000-007	
IBE 470	40t GLW 2 AXLE TANK	23 83 7190 008-031	
IBE 623	40t GLW 2 AXLE TANK	23 83 7197 024-027	

ITALIAN STATE RAILWAYS (FS)		Country 83
<u>VANS</u>		Exchange Conditions 01, 03, 04, 06, 11, 31
Diagram	Description	Vehicle Numbers
IIE 331	36t GLW 2 AXLE REFRIGERATOR VAN	01 83 8092 510, 531
IIE 348	40t GLW 2 AXLE REFRIGERATOR VAN	04 83 8092 430-456, 458-476, 478-484
IIE 375	40t GLW 2 AXLE REFRIGERATOR VAN	03 83 8089 000-979 (RANGE) 03 83 8087 205 11 83 0887 138
IIE 417	40t GLW 2 AXLE REFRIGERATOR VAN	06 83 8083 741-750
IIE 418	40t GLW 2 AXLE REFRIGERATOR VAN	06 83 8083 700-740
IIE 430	40t GLW 2 AXLE REFRIGERATOR VAN	04 83 8083 001-004
IIE 450	40t GLW 2 AXLE REFRIGERATOR VAN	03 83 8088 997
IIE 452	36t GLW 2 AXLE REFRIGERATOR VAN	04 83 8091 000
IME 553	80t GLW BOGIE VAN	31 83 2795 001-200 31 83 2797 001, 032, 160, 183
IIE 590	40t GLW 2 AXLE REFRIGERATOR VAN	04 83 8088 000-049 (RANGE)

ITALIAN STATE RAILWAYS (FS)		Country 83	
<u>VANS</u> (Continued)		Exchange Conditions 04, 21	
Diagram	Description	Vehicle Numbers	
IIE 591	40t GLW 2 AXLE REFRIGERATOR VAN	04 83 8087 000-029	
ILE 651	40t GLW 2 AXLE VAN	21 83 2382 000-299 (RANGE)	
ILE 652	40t GLW 2 AXLE VAN	21 83 2382 300-614, 616-661, 663-699	
ILE 653	40t GLW 2 AXLE VAN	21 83 2388 000-049	
ILE 654	40t GLW 2 AXLE VAN	21 83 2382 701-703, 705-749	
ILE 785	40t GLW 2 AXLE VAN	21 83 2382 160, 260	
ILE 787	40t GLW 2 AXLE VAN	21 83 2382 700, 704	
ILE 788	40t GLW 2 AXLE VAN	21 83 2382 237	
IIE 806	40t GLW 2 AXLE REFRIGERATOR VAN	04 83 8092 201-429 (RANGE)	

SWISS FEDERAL RAILWAYS (CFF)		Country 85	
VANS		Exchange Conditions 23, 33	
Diagram	Description	Vehicle Numbers	
IBE 366	36t GLW 2 AXLE TANK	23 85 7492 200, 201, 700	
IBE 488	40t GLW 2 AXLE TANK	23 85 7397 750, 751	
IBE 493	40t GLW 2 AXLE TANK	23 85 7398 500-521	
IBE 499	40t GLW 2 AXLE TANK	23 85 7390 500-541, 543-547, 549-560	
ICE 532	80t GLW BOGIE TANK	33 85 7995 500-505	

FRENCH NATIONAL RAILWAYS (SNCF)

Country 87

ATOMIC FLASK WAGON

Exchange Condition 33

Diagram

Description

Vehicle Numbers

IQE 475

152.5t GLW ATOMIC FLASK WAGON

33 87 9985 000-007

FRENCH NATIONAL RAILWAYS (SNCF) CAR CARRIERS		Country 87	
		Exchange Condition 23	
<u>Diagram</u>	Description	Vehicle Numbers	
IPE 695	2 AXLE DOUBLE DECK CAR CARRIER	23 87 4176 000-099	
IPE 720	2 AXLE DOUBLE DECK CAR CARRIER	23 87 4177 000-007, 009-019	
IPE 747	2 x 2 AXLE DOUBLE DECK CAR CARRIER	23 87 4371 260-409	
IPE 791	2 x 2 AXLE DOUBLE DECK CAR CARRIER	23 87 4392 500, 501	
IPE 792	2 x 2 AXLE DOUBLE DECK CAR CARRIER	23 87 4392 502-619 (RANGE)	
IPE 798	4 x 2 AXLE DOUBLE DECK CAR CARRIER	23 87 4373 000	
IPE 799	2 x 2 AXLE DOUBLE DECK CAR CARRIER	23 87 4392 570, 571	

FRENCH NATIONAL RAILWAYS (SNCF)

Country 87

COIL CARRIERS

Exchange Condition 31

Diagram

Description

Vehicle Numbers

IHE 796

80t GLW COIL CARRIER

31 87 4667 000-033, 035-099

FRENCH NATIONAL RAILWAYS (SNCF)		Country 87	
FLATS		Exchange Conditions 43, 33, 83, 23	
Diagram	Description	Vehicle Numbers	
ITE 537	40t GLW CAISSE MOBILE (SWAP BODY) FLAT	43 87 9195 000	
ITE 542	40t GLW CAISSE MOBILE (SWAP BODY) FLAT	43 87 9196 000-019	
ITE 543	40t GLW CAISSE MOBILE (SWAP BODY) FLAT	43 87 9196 020-024	
IUE 545	80t GLW 'DEBACH VIT' CURTAIN-SIDED WAGON	33 87 4746 020-034, 036-049 83 87 4739 020-024	
IEE 573	30t GLW CONTAINER FLAT	23 87 4443 000	
IGE 598	84t GLW EASILOADER	33 87 4729 000-011	
IUE 672	84t GLW EASILOADER	33 87 4746 012, 016-019	
IUE 691	90t GLW EASILOADER	33 87 4741 000	
IUE 694	90t GLW HOODED FLAT	33 87 4741 001-012	
IOE 733	80t GLW 'DEBACH VIT' CURTAIN-SIDED WAGON	83 87 4737 015	
IGE 776	90t GLW EASILOADER	33 87 4729 012-014	
IFE 800	144t GLW INTERMODAL	33 87 4938 000-269	
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FRENCH NATIONAL RAILWAYS (SNCF)		Country 87
<u>HOPPERS</u>		Exchange Condition 33
<u>Diagram</u>	Description	Vehicle Numbers
IRE 442	80t GLW BOGIE HOPPER	33 87 9283 000-021 33 87 9384 000-002
IRE 453	80t GLW BOGIE HOPPER	33 87 9382 000-021
IRE 644	80t GLW BOGIE HOPPER	33 87 0699 001-006, 009, 012- 016 33 87 5699 007, 014, 016, 017
IRE 771	80t GLW BOGIE HOPPER	33 87 9282 032-037
IRE 772	80t GLW BOGIE HOPPER	33 87 9282 010-030, 038-059, 061-068
IRE 780	88t GLW BOGIE HOPPER	33 87 9282 060

FRENCH NATIONAL RAILWAYS (SNCF)		Country 87	
<u>OPEN WAGONS</u>		Exchange Conditions 21, 25	
<u>Diagram</u>	Description	Vehicle Numbers	
IFE 342	40t GLW 2 AXLE OPEN WAGON	21 87 4145 200-299 (RANGE) 25 87 4145 230-294 (RANGE)	
IOE 390	40t GLW 2 AXLE HIGH OPEN WAGON	21 87 6094 000-010, 012-049	
IFE 797	40t GLW 2 AXLE OPEN WAGON	21 87 4145 282	

FRENCH NATIONAL RAILWAYS (SNCF)		Country 87	
<u>TANKS</u>		Exchange Conditions 33, 23	
<u>Diagram</u>	Description	Vehicle Numbers	
IBE 116	30t GLW 2 AXLE TANK	23 87 7390 500	
IBE 272	36t GLW 2 AXLE TANK	23 87 7191 020	
IBE 279	36t GLW 2 AXLE TANK	23 87 7191 022	
IBE 309	40t GLW 2 AXLE TANK	23 87 7397 000, 001	
IBE 315	36t GLW 2 AXLE TANK	23 87 7190 503, 506	
IBE 318	40t GLW 2 AXLE TANK	23 87 7191 021, 023	
IBE 327	40t GLW 2 AXLE TANK	23 87 7390 005, 006, 007	
IBE 360	36t GLW 2 AXLE TANK	23 87 7390 501	
IBE 373	40t GLW 2 AXLE TANK	23 87 7391 001-004	
ICE 394	80t GLW BOGIE TANK	33 87 7895 000-006	
ICE 428	80t GLW BOGIE TANK	33 87 7890 555-564	

FRENCH NATIONAL RAILWAYS (SNCF) TANKS (Continued)		Country 87	
		Exchange Conditions 33, 34, 23, 21	
Diagram	Description	Vehicle Numbers	
ICE 429	80t GLW BOGIE TANK	21 87 0798 999 33 87 7890 568, 570-574, 576, 578, 579, 581, 584	
ICE 432	80t GLW BOGIE TANK	33 87 7890 613-616	
ICE 440	80t GLW BOGIE TANK	33 87 7890 599-610	
ICE 441	80t GLW BOGIE TANK	33 87 7890 611, 612	
ICE 446	80t GLW BOGIE TANK	33 87 7890 520-554, 589-598	
ICE 454	80t GLW BOGIE TANK	34 87 7890 585-588	
ICE 456	80t GLW BOGIE TANK	34 87 7890 515, 516, 518, 519	
ICE 457	80t GLW BOGIE TANK	33 87 7890 500-514	
IBE 460	40t GLW 2 AXLE TANK	23 87 7390 515, 516	
IBE 484	40t GLW 2 AXLE TANK	23 87 7391 00	
ICE 496	80t GLW BOGIE TANK	33 87 7992 000-010, 013-015	

FRENCH NATIONAL RAILWAYS (SNCF)		Country 87
TANKS		Exchange Conditions 33, 34
Diagram	Description	Vehicle Numbers
ICE 498	80t GLW BOGIE TANK	33 87 7995 000-002
ICE 507	80t GLW BOGIE TANK	33 87 7896 000
ICE 510	80t GLW BOGIE TANK	33 87 7996 000-007
ICE 513	80t GLW BOGIE TANK	33 87 7996 008-014
ICE 516	80t GLW BOGIE TANK	33 87 7996 030-039
ICE 522	80t GLW BOGIE TANK	33 87 7996 018-023, 026-028
ICE 525	80t GLW BOGIE TANK	33 87 7896 001-007
ICE 533	80t GLW BOGIE TANK	33 87 7896 008-011
ICE 536	80t GLW BOGIE TANK	34 87 7899 010-014
ICE 539	80t GLW BOGIE TANK	33 87 7899 003-009
ICE 541	80t GLW BOGIE TANK	33 87 7896 012- 016
ICE 549	80t GLW BOGIE TANK	33 87 7996 040-045

FRENCH NATIONAL RAILWAYS (SNCF) TANKS (Continued)		Country 87	
		Exchange Conditions 23, 33, 34	
<u>Diagram</u>	Description	Vehicle Numbers	
ICE 560	80t GLW BOGIE TANK	33 87 7996 046, 047	
ICE 582	80t GLW BOGIE TANK	33 87 7996 048-053	
IBE 627	36t GLW 2 AXLE TANK	23 87 7191 024	
ICE 659	80t GLW BOGIE TANK	34 87 7890 517	
ICE 677	90t GLW BOGIE TANK	33 87 7994 000-009	
ICE 698	90t GLW BOGIE TANK	33 87 7994 010-029	
ICE 719	90t GLW BOGIE TANK	33 87 7898 000-119	
IBE 807	36t GLW 2 AXLE TANK	23 87 7390 503	
IBE 808	36t GLW 2 AXLE TANK	23 87 7390 509	
IBE 809	36t GLW 2 AXLE TANK	23 87 7390 510	

FRENCH NATIONAL RAILWAYS (SNCF)		Country 87	
<u>VANS</u>		Exchange Conditions 21, 23, 43	
<u>Diagram</u>	Description	Vehicle Numbers	
ILE 304	40t GLW 2 AXLE VAN	21 87 2380 002-999 (RANGE)	
IYE 540	40t GLW CURTAIN SIDED	23 87 2396 000-005	
ILE 793	40t GLW 2 AXLE VAN	43 87 2380 001-004	

BELGIAN NATIONAL RAILWAYS (SNCB)

Country 88

TANKS

Exchange Condition 33

Diagram

Description

Vehicle Numbers

ICE 737

80t GLW BOGIE TANK

33 88 7996 100-109

BELGIAN NATIONAL RAILWAYS (SNCB)

Country 88

HOPPERS

Exchange Condition 33

Diagram

Description

Vehicle Numbers

IRE 442

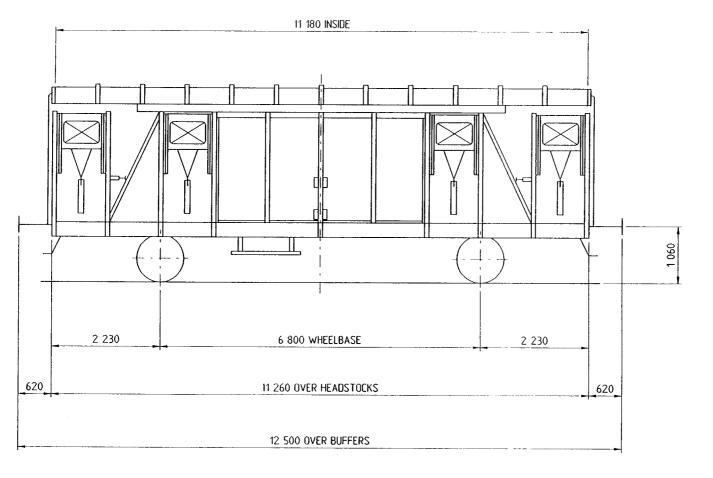
80t GLW BOGIE HOPPER

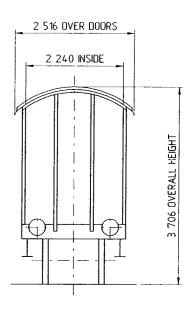
33 88 9282 000-009 33 88 9380 000-110 (RANGE)

BELGIAN NATIONAL I	RAILWAYS (SNCB)	Country 88
VANS		Exchange Condition 21
<u>Diagram</u>	Description	Vehicle Numbers
ILE 479	40t GLW 2 AXLE VAN	21 88 5799 000-049 (RANGE) 21 88 0799 000, 001, 032, 042

Railfreight Distribution International Ferry Vehicles (Foreign Administration Vehicle Diagram Book No. 340						
International Ferry Vehicles (Foreign Administration)						
Vehicle Diagram Book No. 340						

	Α		В	С	D			TOPS INFORMATION						
90	19	7 (7	23 t	27 t			AARKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN
S	19	t 2	23 t	27 t			CARKND	60 mile/h UP TO	39 tonne GLW	5t FORCE UP TO	22 + 01 144	LENGTH	(GLW)	SHEET
120						<u> </u>	I M B C	mile/h ABOVE		18 t FORCE ABOVE	23 t GLW	10	6	





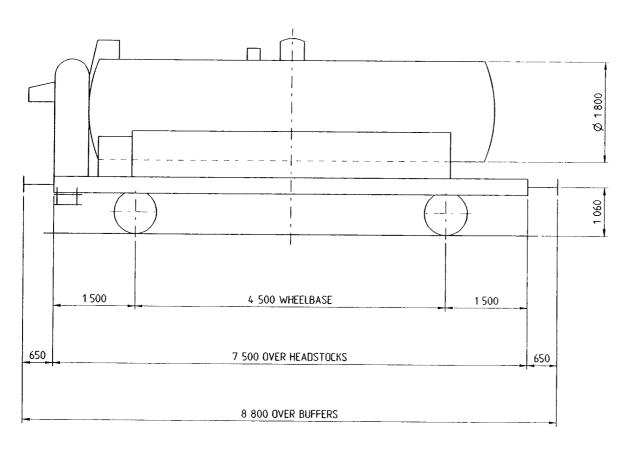
TARE-	12 t
CAPACITY, WEIGH	iT- 27 t
CAPACITY, VOLUM	/IE- 49 m ³
FLOOR AREA-	25 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.I	No1 091.01.1

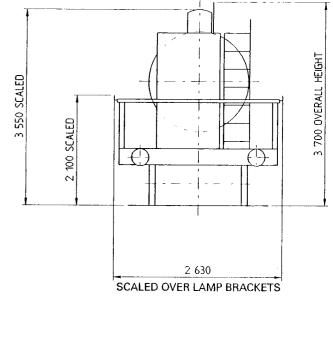
BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Hfs
WAGON No	21 80 2140 131, 140
BUILDER-	WAGGON FABRIK

33 t GLW 2 AXLE TANK

	-	Α	В	C	;	D		TOPS INFORMATION						
90		1.4t	22.7	t 22			AARKND	OPERATING S	OPERATING SPEED		BRAKE FORCE DATA		RA	DESIGN
S	2	1.4t	22.7	t 22	.7t		CARKND	60 mile/h UP TO	33 tonne GLW	5t FORCE UP TO	15 + CLM	LENGTH	(GLW)	SHEET
120	1					}	I B B B	mile/h ABOVE	oo tonne dry	13 t FORCE ABOVE	15 t GLW	4	4	





TARE-	10.6 t
CAPACITY, WEIGHT-	22.4 t
CAPACITY, VOLUME-	· 15 m³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	-WH 167

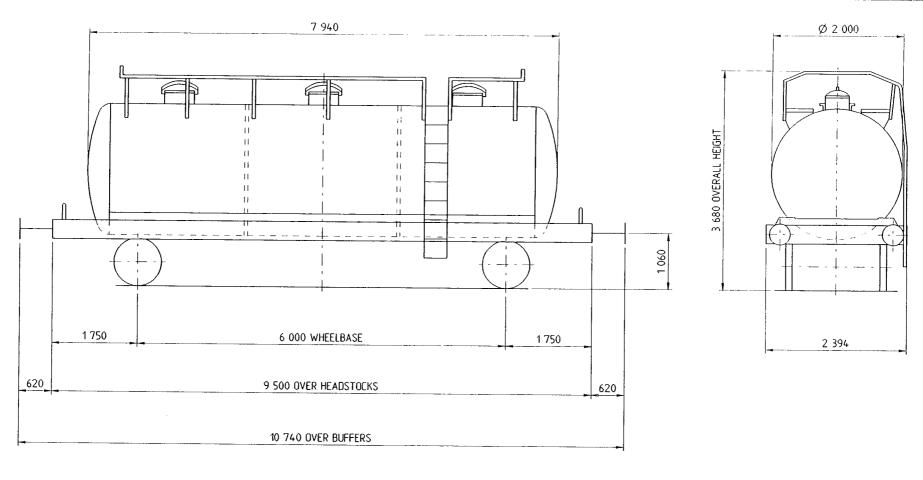
BRAKE-	AIR & VAC THRO' PIPE			
SUSPENSION-	SINGLE LINK			
COUPLINGS-	INTERNATIONAL SCREW			
BUFFERS-	HYDRAULIC Ø370 HD			
WHEELS-	Ø 1 000			
JOURNALS-	Ø -			

TYPE-	Zfkks	
WAGON No.	- 23 80 7490 000	
BUILDER-	HULS CHEMICAL WORKS	



40 t GLW 2 AXLE TANK

	Α		В	С	D		TOPS INFORMATION						
90	+		3.8t	27.8	<u> </u>	AARKND	OPERATING SI	PEED	BRAKE FORCE DA	ATA	EXCESS	RA	DESIGN
<u> </u>	19.8	3t 2	23.8t	23.8	t	CARKND	60 mile/h UP TO	36 tonne GLW	AIR 5 t FORCE UP TO	104 01111	LENGTH	(GLW)	SHEET
120	<u> </u>					 I B X B	50 mile/h ABOVE		AIR 15t FORCE ABOVE	18 t GLW	7	6	-

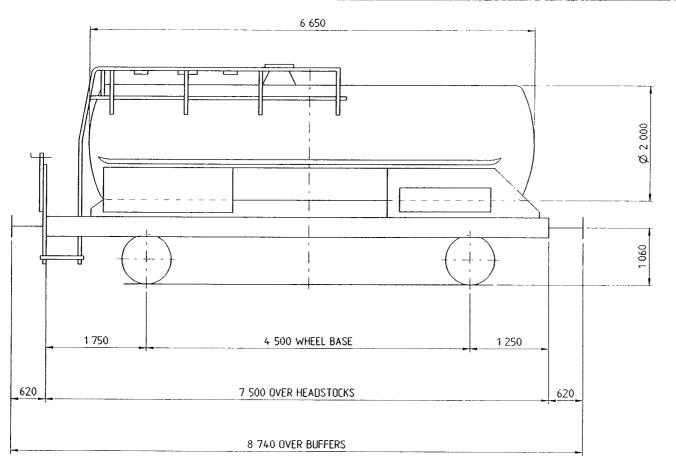


TARE-	12.2 t
CAPACITY, WEIGHT-	27.8 t
CAPACITY, VOLUME-	- 24 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	-7008.01.01

BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø460 HD
WHEELS-	Ø 1 006
JOURNALS-	Ø 130

TYPE-	Zfs	
WAGON No	24 80 7390 400	
BUILDER-	WAGGONFABRIK	

	Α	В	C		D		TOPS INFORMATION							
90	20.7	7t 24.7	7t 28	.7t		AARKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S	20.7	7t 24.7	/t 24	.7t		CARKND	60 mile/h UP TO	36 tonne GLW	5 t FORCE UP TO	10 + OLIM	LENGTH	(GLW)	SHEET	
120						I B A B	50 mile/h ABOVE	30 tollife GLVV	15 t FORCE ABOVE	18 t GLW	4	6		



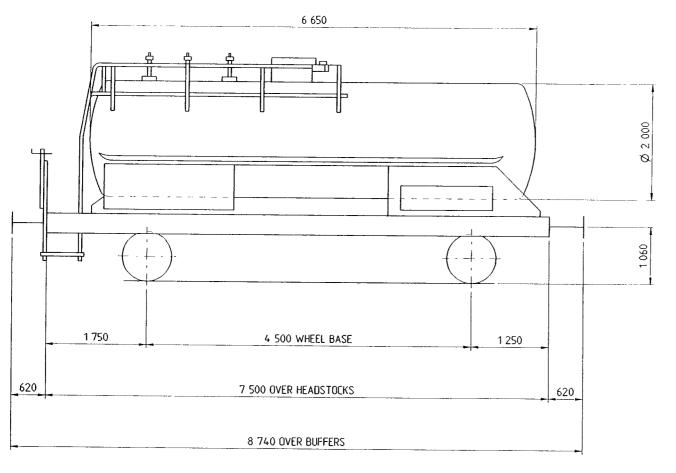
	2 440 OVER LAMP BRACKETS
3 780 OVERALL HEIGHT	

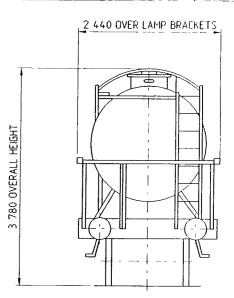
TARE-	10.7 t
CAPACITY, WEIGHT-	29.3 t
CAPACITY, VOLUME	- 19 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	H 7600-2

BRAKE-	AIR
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcfs
WAGON No	23 80 7391 701
BUILDER-	HULS
OWNER-	DB

	-	Α	В	C	D			TOPS INFORMATION							
90	-			t 26.7			AARKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S		18.7t	22.7	22.7	t		CARKND	60 mile/h UP TO	36 tonne GLW	6t FORCE UP TO	10 + 0114	LENGTH	(GLW)	SHEET	
12	20					<u> </u>	I B B B	50 mile/h ABOVE		15 t FORCE ABOVE	18 t GLW	4	6	-	





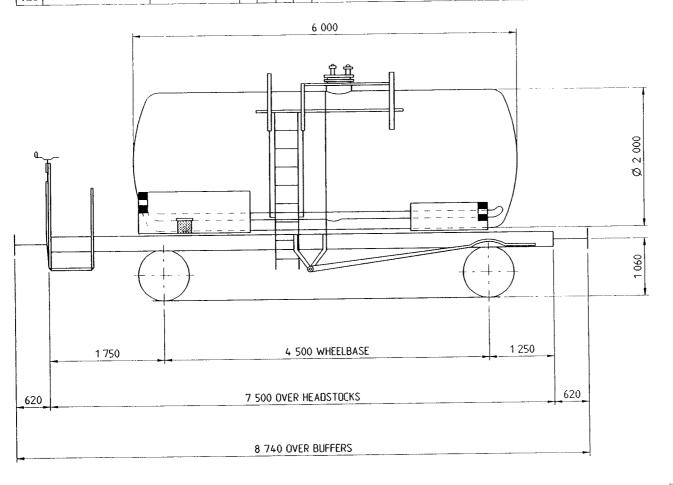
TARE-	13.3 t
CAPACITY, WEIGHT-	26.7 t
CAPACITY, VOLUME-	19 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	H 7596-2

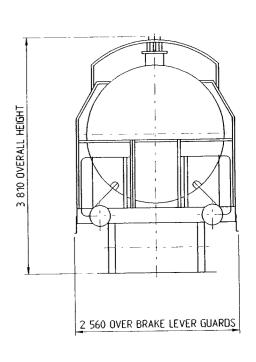
BRAKE-	AIR & VAC THRO' PIPE					
SUSPENSION-	DOUBLE LINK					
COUPLINGS-	INTERNATIONAL SCREW					
BUFFERS-	HYDRAULIC Ø370 HD					
WHEELS-	Ø 1 000					
JOURNALS-	Ø 130					

TYPE-	Zcefs
WAGON No	23 80 7398 600
DIW DED	
BUILDER-	HULS RECKLING HAUSEN



	Т	Α	В		D		TOPS INFORMATION							
90	2		23 1	23 t		AAF	RKND	OPERATING SPEED		BRAKE FORCE D	EXCESS	RA	DESIGN	
S	f					CAF	RKND	50 mile/h UP TO	33 tonne GLW	7 t FORCE UP TO	20 t GLW	LENGTH 1	(GLW)	SHEET
120	0		J	-1		1	в в в	mile/h ABOVE		17 t FORCE ABOVE				



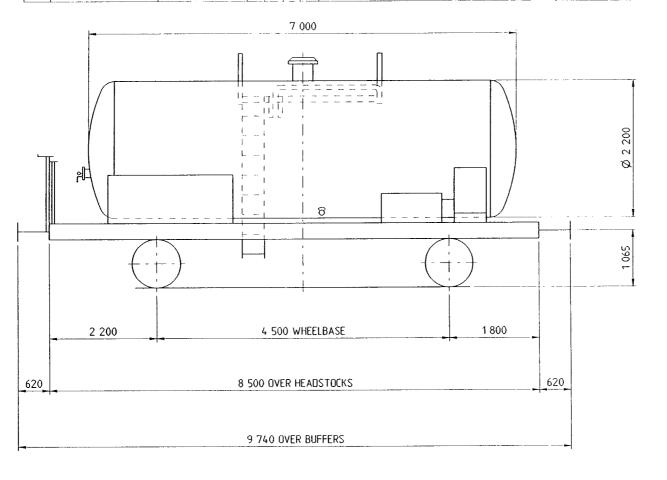


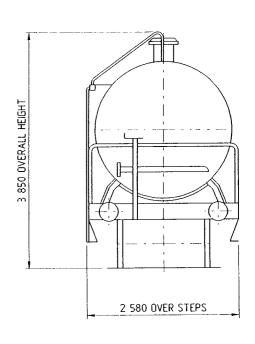
TARE-	10.6 t
CAPACITY, WEIGHT-	22.4 t
CAPACITY, VOLUME	- 18 m³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	BT 519-2

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcf Zcfs
WAGON No	23 80 7191 701, 702 23 80 7391 718-720
BUILDER-	B.A.S.F. LUDWIGSHAFEN
OWNER-	D.B.
	20 20 20 1001 7

	Α	В	С	D		TOPS INFORMATION							
90	21.	5t 25.5	t 25.5t		AA	AARKND OPERATING SPEED			BRAKE FORCE DATA		EXCESS	RA	DESIGN
S					CA	RKND	50 mile/h UP TO	36 tonne GLW	5 t FORCE UP TO	20 t GLW	LENGTH	(GLW)	SHEET
120				1	1	В В В	mile/h ABOVE	30 tollile GLVV	11 t FORCE ABOVE	201 GLVV	6	5	





NOTE :- BARRELS FITTED WITH BOTTOM OUTLETS AND HEATING COILS.

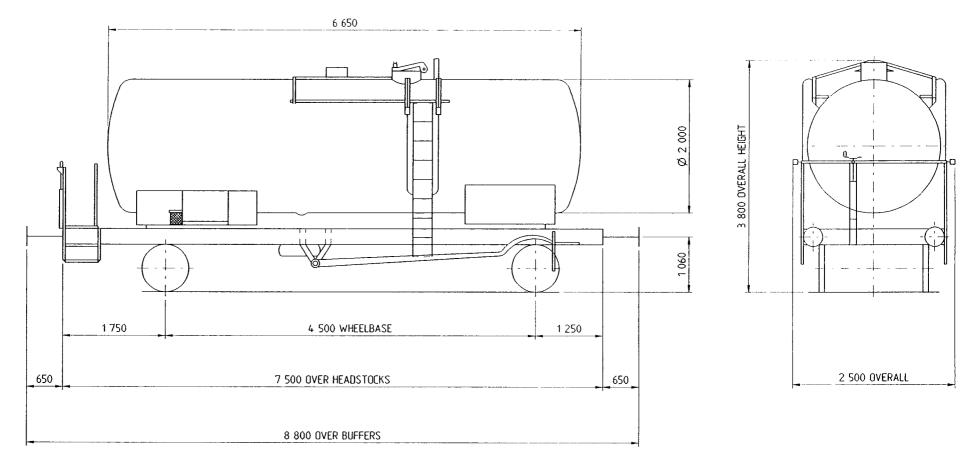
TARE-	10.5 t
CAPACITY, WEIGHT-	25.5 t
CAPACITY, VOLUME-	25 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 6886

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø 370
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zef
WAGON No	23 83 7197 016, 017
BUILDER-	A.L.P.

31 t GLW 2 AXLE TANK

	Α	В	C	D			TOPS INFORMATION							
90	19 t	19 t	19	t		AARKND	OPERATING S	PEED	BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S					_]	CARKND	50 mile/h UP TO	31 tonne GLW	5 t FORCE UP TO	17+ 0114	LENGTH	(GLW)	SHEET	
120	<u> </u>					I B B B	mile/h ABOVE	31 tollile GLVV	9 t FORCE ABOVE	17 t GLW	4	3	-	



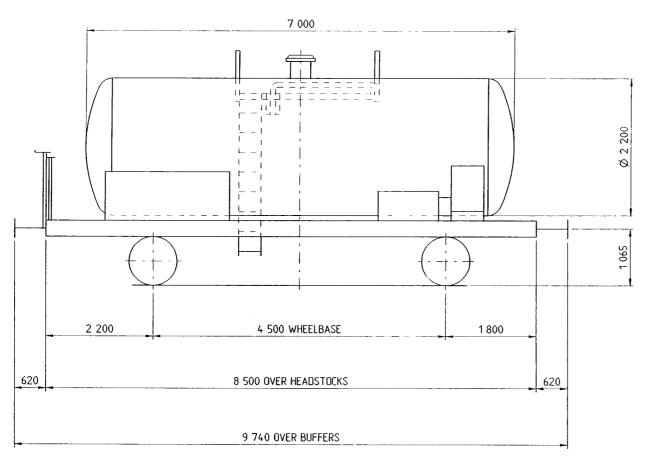
TARE-	12.5 t
CAPACITY, WEIGHT-	18.5 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 25.01.253

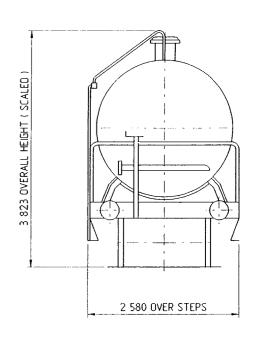
BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zf					
WAGON No	23 80 7190 008					
BUILDER-	V.T.G.					
OWNER-	V.T.G.					

35 t GLW 2 AXLE TANK

		Α	В	С	D		TOPS INFORMATION								
90) 2	20.8t	24 t	24 t		AARKND	OPERATING S	PEED	BRAKE FORCE DATA		EXCESS	RA	DESIGN		
S						CARKND	50 mile/h UP TO	35 tonne GLW	5 t FORCE UP TO	10 + CLW	LENGTH	(GLW)	SHEET		
120	0					I B B B	mile/h ABOVE	33 tollile GLVV	11 t FORCE ABOVE	19 t GLW	6	4	-		



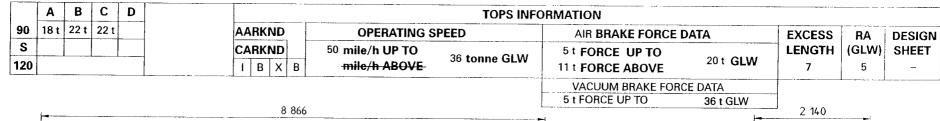


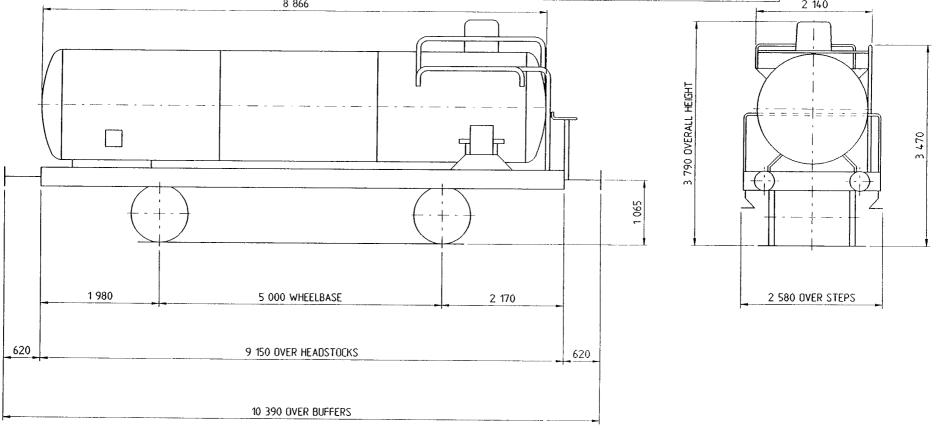
TARE-	11.2 t
CAPACITY, WEIGHT-	23.8 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 56252.233

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	_
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zef				
WAGON No	23 83 7197 008-015				
BUILDER-	SIAI-LERICI				
OWNER-	MONTEDISON MILAN				

36 t GLW 2 AXLE TANK





TARE-	14 t	
CAPACITY, WEIGI	HT - 22 t	
CAPACITY, VOLU	ME- 26 m ³	
FLOOR AREA-	449	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	No832	

BRAKE-	DUAL
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø 400
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

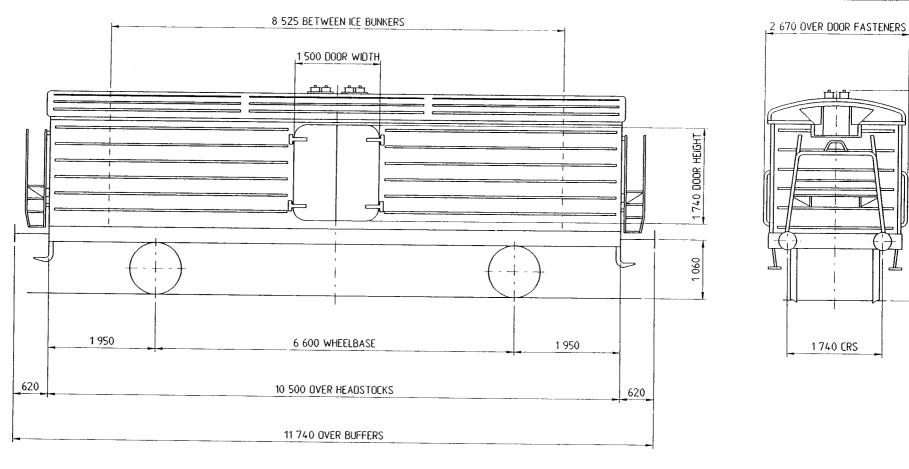
TYPE-	Zf	
WAGON No	23 83 7190 003-007	
BUILDER-	MARCHETTI MILAN	

36 t GLW REFRIGERATOR VAN

IIE 183

3 837 MAX HEIGHT

	A	4	В	С	D		TOPS INFORMATION							
90	-			19.5			AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S		.5t	19.5t	19.51	<u> </u>		CARKND	60 mile/h UP TO	36 tonne GLW	AIR 13t FORCE UP TO	05.4 04.44	LENGTH	(GLW)	SHEET
120	<u> </u>						X H	mile/h ABOVE	50 tollile GLVV	AIR 21t FORCE ABOVE	25 t GLW		5	_



TARE-	16.5 t
CAPACITY, WEIGHT-	19.5 t
CAPACITY, VOLUME-	30.6 m ³
FLOOR AREA-	17.3 m ²
MIN.CURVE-	-
GEN.ARRGT.DRG.No	339/137

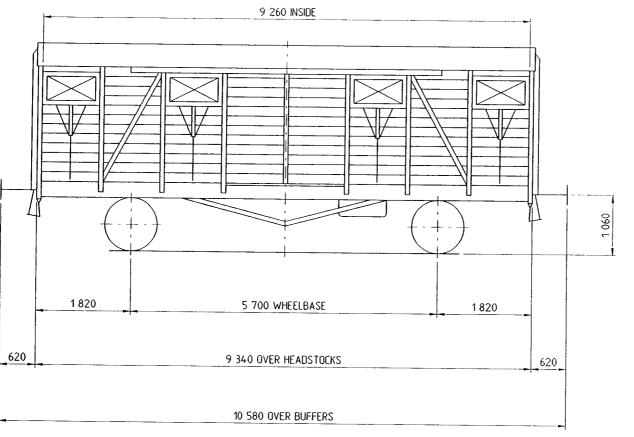
BRAKE-	DUAL; HAND LEVER
SUSPENSION-	-
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	-
WHEELS-	Ø -
JOURNALS-	Ø -

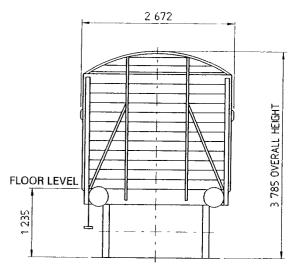
TYPE-	_
WAGON No	01 55 8480 000, 006-098
BUILDER-	V.E.B. WAGONBAU

36 t GLW 2 AXLE VAN

IME 199

	Α	В	C	•	D		TOPS INFORMATION							
<u> </u>	19.5			-		<u> </u>	AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
	19.5	23.5	t 23	.5t		C	CARKND	60 mile/h UP TO	36 tonne GLW	AIR 5 t FORCE UP TO	40. 0111	LENGTH	(GLW)	SHEET
120							I M X C	mile/h ABOVE		AIR 15 tFORCE ABOVE	18 t GLW	7	5	W 3017





TARE-	12.5 t
CAPACITY, WEIGHT-	23.5 t
CAPACITY, VOLUME-	42 m ³
FLOOR AREA-	21 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 01-40-862

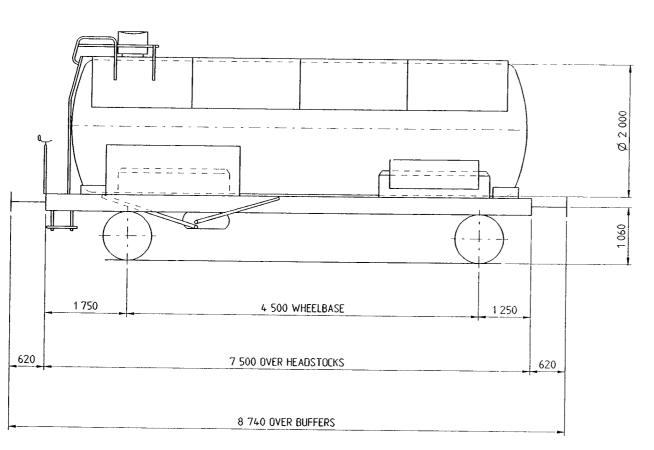
BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

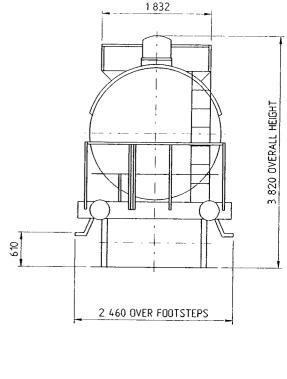
TYPE-	Hfkks
WAGON No	21 72 2191 000-099
BUILDER-	FABRIKA VAGONA KRALJEVO



26 t GLW 2 AXLE TANK

	Α	В	С	D				TOPS INFO	DRMATION]
90	10 t	10 t	10 t			AARKND	OPERATING S	PEED	BRAKE FORCE D	DATA	EXCESS	RA	DESIGN
120	10 t	10 t	10 t	L	ļ	CARKND	60 mile/h UP TO mile/h ABOVE	26 tonne GLW	6 t FORCE UP TO	20 t GLW	LENGTH	(GLW)	SHEET
120	L					I B B A	TIIIIE/II ADUVE		10 t FORCE ABOVE		4	1	-

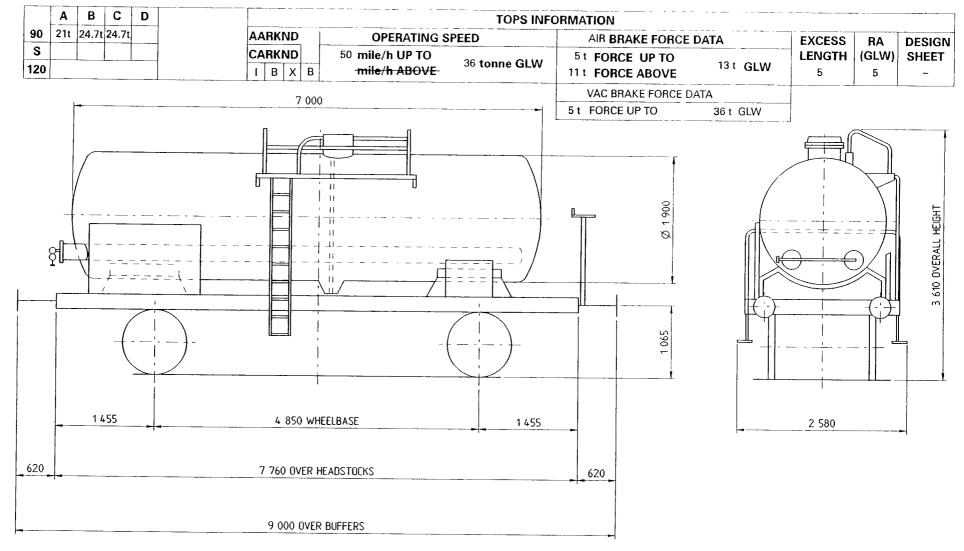




TARE-	15.5 t	
CAPACITY, WEIGH	iT- 10.5 t	
CAPACITY, VOLUI	VIE- 18.5 m ³	
FLOOR AREA-	-	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	NoB 3006.01.1	

BRAKE- AIR &	VAC THRO' PIPE:PLATFORM SCREW & SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zfgks
WAGON No	23 80 7395 002, 003, 005
BUILDER-	UERDINGEN AG KREFELD



NOTE 23 83 7197 018 & 019 ARE FITTED WITH HEATING DEVICES

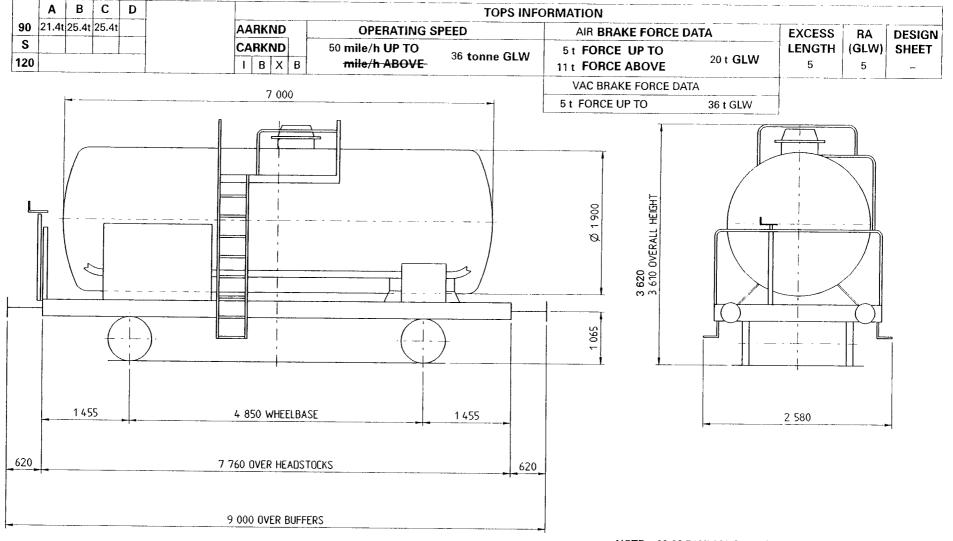
TARE-	11.3 t
CAPACITY, WEIGHT	Γ- 24.7 t
CAPACITY, VOLUM	E- 18.8 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.N	o 823

BRAKE-	DUAL: SCREW & SIDE LEVER
SUSPENSION-	SINGLE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zf & Zef
WAGON No	23 83 7190 000 23 83 7197 018, 019
BUILDER-	MARCHETTI

Railfreight Distribution International Ferry Vehicles (Foreign Administration) Vehicle Diagram Book No. 340 36 t GLW 2 AXLE TANK

IBE 221



NOTE 23 83 7197 020 & 021 ARE FITTED WITH HEATING DEVICES

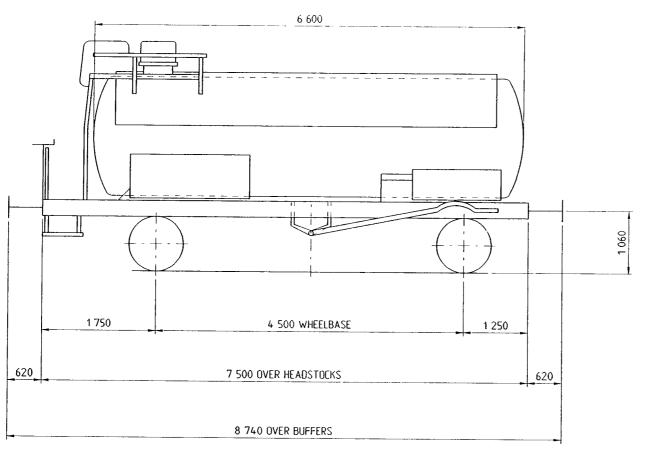
TARE-	10.6 t	
CAPACITY, WEIGH	HT- 25.4 t	
CAPACITY, VOLU	ME- 19 m ³	
FLOOR AREA-	-	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	No1/S	

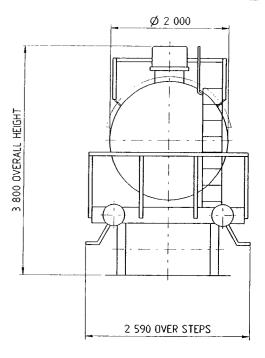
BRAKE-	DUAL
SUSPENSION-	SINGLE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zf & Zef
WAGON No	23 83 7190 001, 002 23 83 7197 020, 021
	GALLINARI
BUILDER-	OVERHAVIII

37 t GLW 2 AXLE TANK

	A	4	В	С	D	TOPS INFORMATION							
90	17.	.8t	21.8t	23.1		AARKND	OPERATING S	PEED	BRAKE FORCE D	DATA	EXCESS	RA	DESIGN
S	L				<u> </u>	CARKND	50 mile/h UP TO	37 tonne GLW	9 t FORCE UP TO		LENGTH	(GLW)	SHEET
120						 I B B B	mile/h ABOVE	or toline GLVV	17 t FORCE ABOVE	22 t GLW	4	5	-





TARE-	14 t
CAPACITY, WEIGHT	- 23 t
CAPACITY, VOLUM	E- 18.5 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	o H8886-2

BRAKE-	AIR & VAC THRO' PIPE			
SUSPENSION-	- DOUBLE LINK			
COUPLINGS-	INTERNATIONAL SCREW			
BUFFERS-	HYDRAULIC Ø 370 HD			
WHEELS-	Ø 1 000			
JOURNALS-	Ø 130			

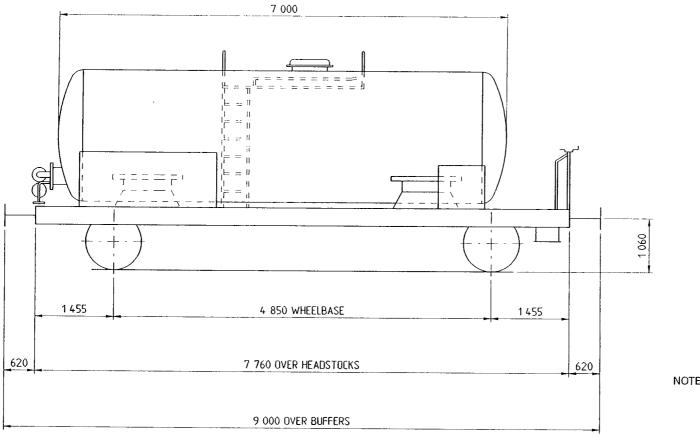
TYPE-	Zfgks
WAGON No	23 80 7395 000, 001
BUILDER-	HÖLS CHEMICAL WORKS

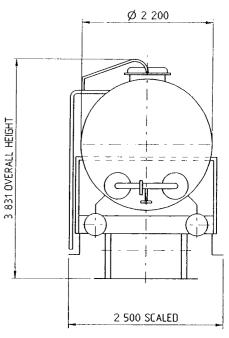


40 t GLW 2 AXLE TANK

IBE 225

	Α	В	С	D	TOPS INFORMATION							
90	20.2	t 24.2	2t 28.2	t	AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S					CARKND	50 mile/h UP TO	40 tonne GLW	5t FORCE UP TO	15 4 00 14	LENGTH	(GLW)	SHEET
120	ļ				 I B B B	mile/h ABOVE	40 tollile GLVV	13 t FORCE ABOVE	15 t GLW	5	6	-





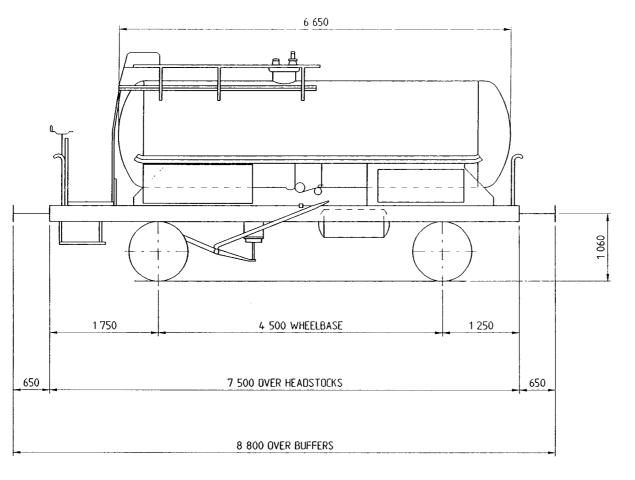
NOTE: BARRELS FITTED WITH HEATING COILS BOTTOM OUTLETS BLANKED OFF

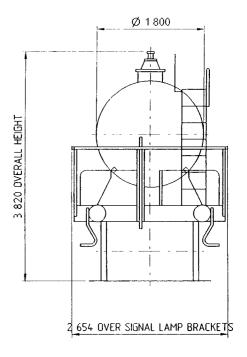
TARE-	11.8 t	
CAPACITY, WEIGI	- T- 28.2 t	
CAPACITY, VOLU	ME- 24 m ³	
FLOOR AREA-		
MIN.CURVE-	60 m	
GEN.ARRGT.DRG	No - 233-60 0150	

BRAKE-	AIR & VAC THRO' PIPE				
SUSPENSION-	SINGLE LINK				
COUPLINGS-	INTERNATIONAL SCREW				
BUFFERS-	HYDRAULIC Ø370 HD				
WHEELS-	Ø 1 000				
JOURNALS-	Ø 130				

TYPE-	Zef	
WAGON No	23 83 7197 022, 023	
BUILDER-	SIAI-LERICI	

		Α	В		С	D	TOPS INFORMATION							
90	2		22.2	2t 2			AARKND	OPERATING SI	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	2	1.2t	22.2	2t 2	2.2t		CARKND	60 mile/h UP TO	33 tonne GLW	7t FORCE UP TO	20 + CLIM	LENGTH	(GLW)	SHEET
120)						I B B B	mile/h ABOVE	55 tollie GLVV	17 t FORCE ABOVE	20 t GLW	4	4	-



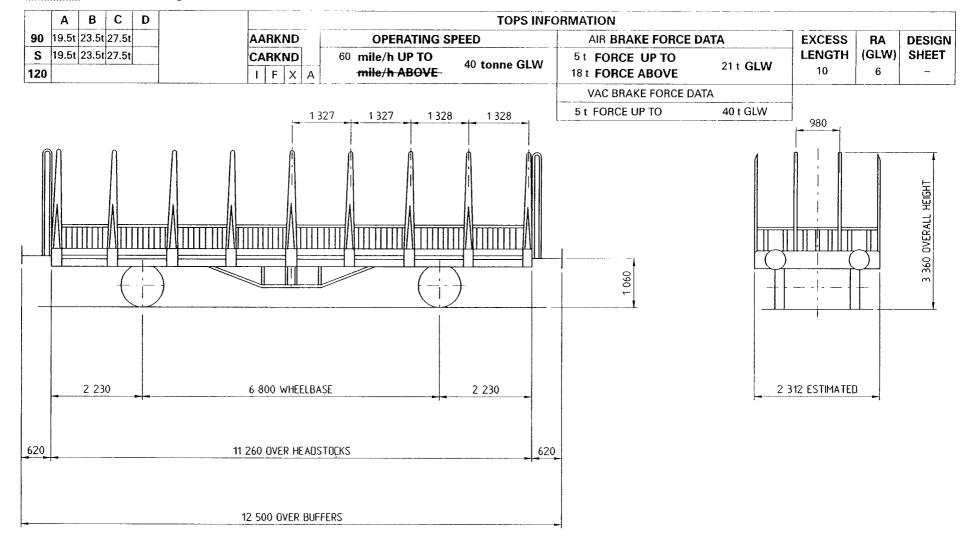


TARE-	10.9 t			
CAPACITY, WEIGHT-	22.1 t			
CAPACITY, VOLUME	- 15 m ³			
FLOOR AREA-	-			
MIN.CURVE-	60 m			
GEN.ARRGT.DRG.No13931-2				

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø 370 HD
WHEELS-	Ø 930
JOURNALS.	Ø 130

TYPE-	Zcfkks
WAGON No	23 80 7491 401
BUILDER-	CHEMISCHE WERKE HÜLS
OWNER-	RECKLINGHAUSEN

IFE 259

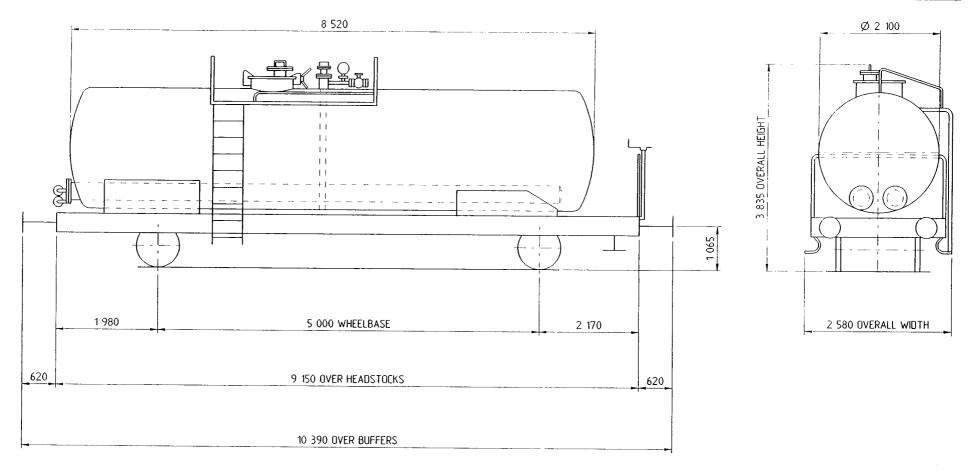


TARE-	12.3 t	
CAPACITY, WEIGH	IT- 27.7 t	
CAPACITY, VOLUM	ЛЕ - —	
FLOOR AREA-	234 m ²	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.I	No 13133	

BRAKE-	AIR; VAC (SEE NOTE)
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø370
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Lfms	
WAGON No	o 21 80 4142 049, 098, 120	
BUILDER-	LINKE-HOFMANN-BUSCH	

	1	Α	В	С)		TOPS INFORMATION							
90	2	0 t	24 t	28	t		AARKND		OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	↓_]					CARKND		50 mile/h UP TO	40 tonne GLW	6t FORCE UP TO	15 + CLW	LENGTH	(GLW)	SHEET
120	⊥.						I B B	В	mile/h ABOVE		14 t FORCE ABOVE	15 t GLW	7	6	_



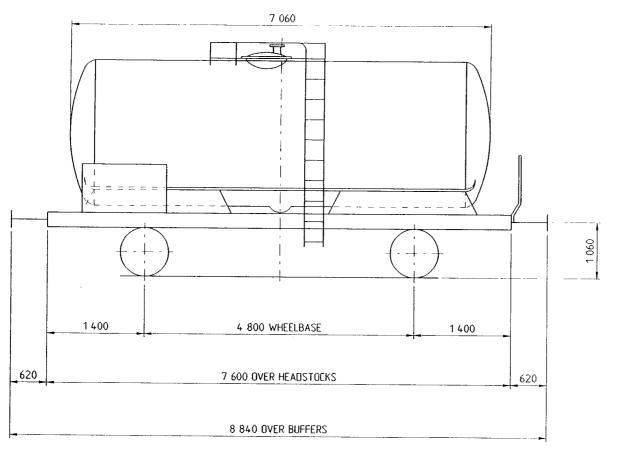
TARE-	12 t
CAPACITY, WEIGHT-	28 t
CAPACITY, VOLUME-	28 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	4095

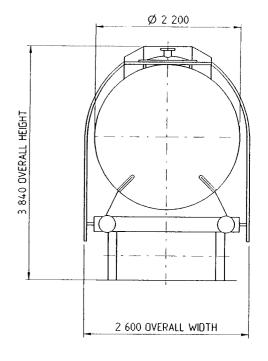
BRAKE-	AIR & VAC THRO' PIPE		
SUSPENSION-	SINGLE LINK		
COUPLINGS-	INTERNATIONAL SCREW		
BUFFERS-	HYDRAULIC Ø400 HD		
WHEELS-	Ø 1 000		
JOURNALS-	Ø 130		

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

	1	Α	В	С	D		TOPS INFORMATION						
90	17	7.1t	21.1	t 25.11		AARKND	OPERATING S	PEED	BRAKE FORCE I	DATA	EXCESS	RA	DESIGN
S	<u> </u>				<u> </u>	CARKND	50 mile/h UP TO	36 tonne GLW	5 t FORCE UP TO	20. 0114	LENGTH	(GLW)	SHEET
120						I B B B	mile/h ABOVE	oo tollile GLVV	FORCE ABOVE	36 t GLW	4	5	

NOTE :- FIGURES QUOTED FOR GLW, TARE, CAPACITY, ETC. ARE TO SUIT U.K. WITH PERMITTED 83% FILLING

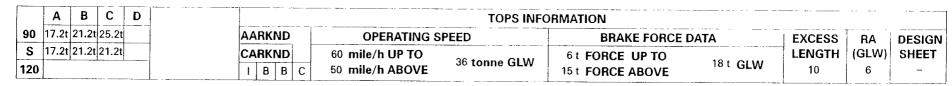


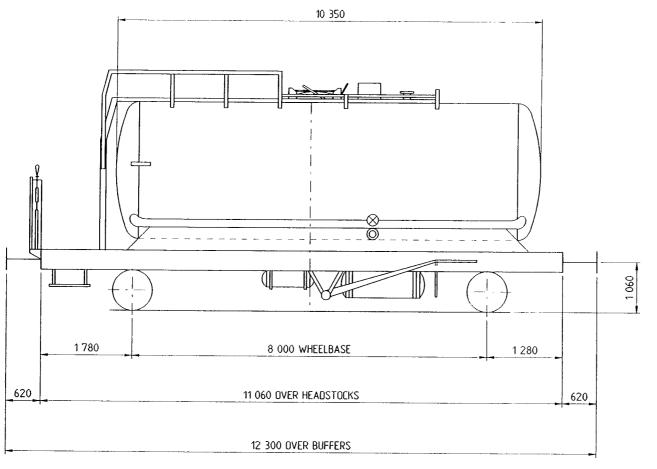


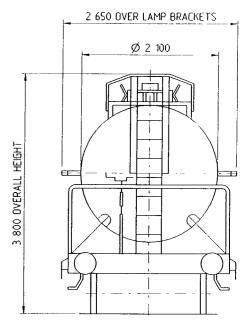
TARE-	10.89 t	
CAPACITY, WEIGH	IT- 25.11 t	
CAPACITY, VOLUM	ИЕ- 21 m³	
FLOOR AREA-		
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	Vo89005	

AIR & VAC THRO' PIPE
DOUBLE LINK
INTERNATIONAL SCREW
HYDRAULIC
Ø 1 000
Ø 130

TYPE-	Zcf
WAGON No	23 87 7191 020
BUILDER-	FAUVET - GIREL







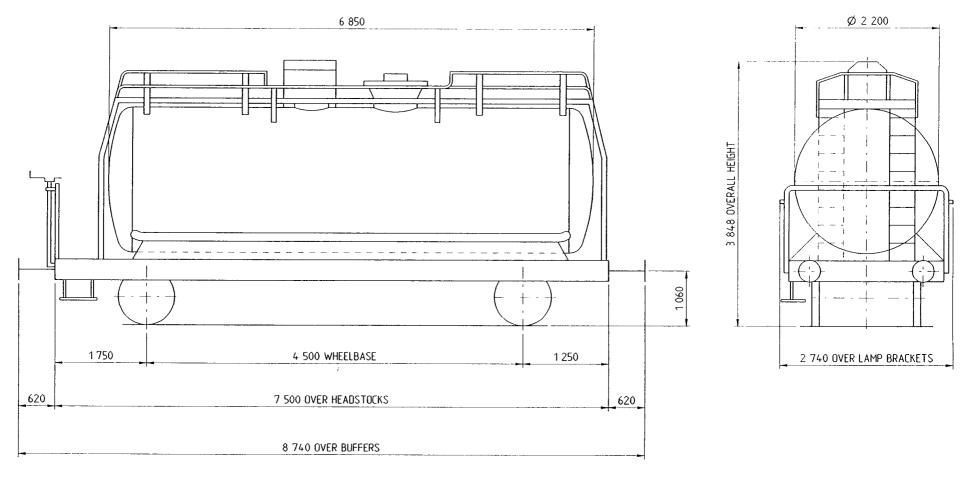
TARE-	14.8 t
CAPACITY, WEIGHT-	25.2 t
CAPACITY, VOLUME-	34 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	01.412

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcfs ; Zcefs
WAGON No	23 80 7391 000-004 23 80 7398 001-005
BUILDER-	V.T.G.
OWNER-	V.T.G.

40 t GLW 2 AXLE TANK

		Α		В	С	D		TOPS INFORMATION						
90	1	17.2	2t 2		t 25.21	t	AARKND	OPERATING SI	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	1	17.2	t 2	1.21	t 21.21	t	CARKND	60 mile/h UP TO	36 tonne GLW	9t FORCE UP TO	21 + 0114	LENGTH	(GLW)	SHEET
120)						I B X C	50 mile/h ABOVE	20 foline Grav	18 t FORCE ABOVE	21 t GLW	4	6	-



TARE-	14.8 t	
CAPACITY, WEIGH	T- 25.2 t	
CAPACITY, VOLUM	/1E- 24 m³	
FLOOR AREA-	_	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	NoW 1450	

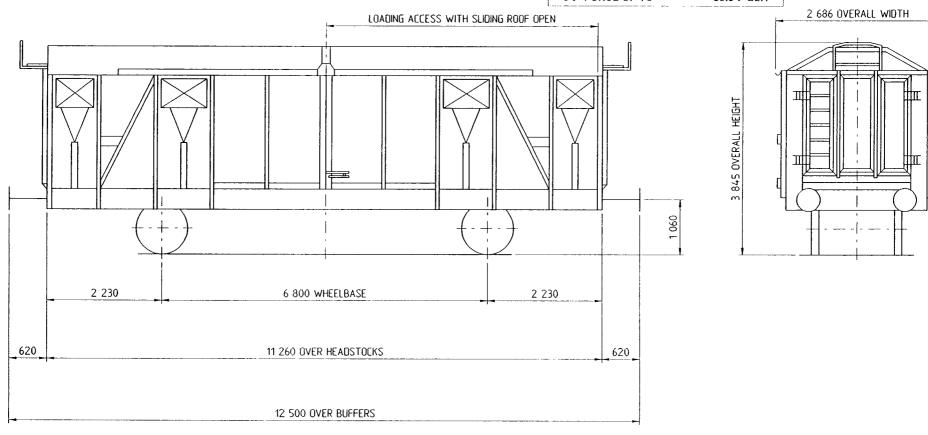
DUAL		
DOUBLE LINK		
INTERNATIONAL SCREW		
RINGFEDER Ø370 HD		
Ø 1 000		
Ø 130		

TYPE-	Zcfs
WAGON No	23 80 7391 400
BUILDER-	KAMINSKI

40 t GLW 2 AXLE VAN

IME 277

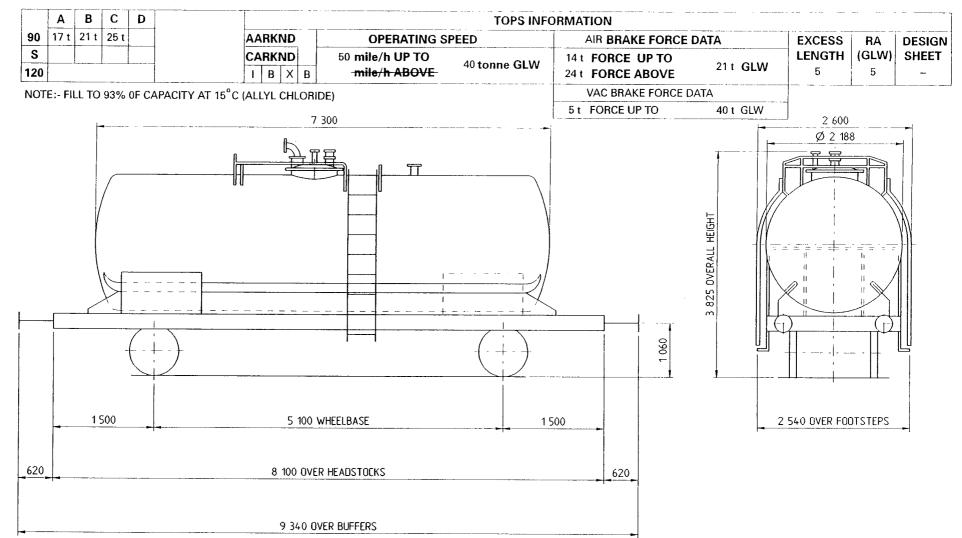
A B C D		TOPS INFORMATION						
90 18 t 22 t 26 t	AARKND	OPERATING :	SPEED	AIR BRAKE FORCE I	DATA	EXCESS	RA	DESIGN
S 18 t 22 t 26 t 120	CARKND I M X S	60 mile/h UP TO mile/h ABOVE	39.5 tonne GLW	5 t FORCE UP TO 18 t FORCE ABOVE	21 t GLW	LENGTH 10	(GLW)	SHEET -
				VAC BRAKE FORCE D	ATA		— — — —	
				5 t FORCE UP TO	39.5 t GLW	1		



TARE-	13.5 t
CAPACITY, WEIGHT-	· 26.5 t
CAPACITY, VOLUME	- 58 m ³
FLOOR AREA-	25 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	o12.117.01.01

BRAKE-	DUAL & SIDE LEVER		
SUSPENSION-	DOUBLE LINK		
COUPLINGS-	INTERNATIONAL SCREW		
BUFFERS-	RINGFEDER		
WHEELS-	Ø 1 000		
JOURNALS-	Ø 130		

TYPE-	Tcefs
WAGON No.	- 21 80 0795 089 21 80 5795 004, 006, 014, 061, 085, 093
BUILDER-	D.B.
OWNER-	D.B.



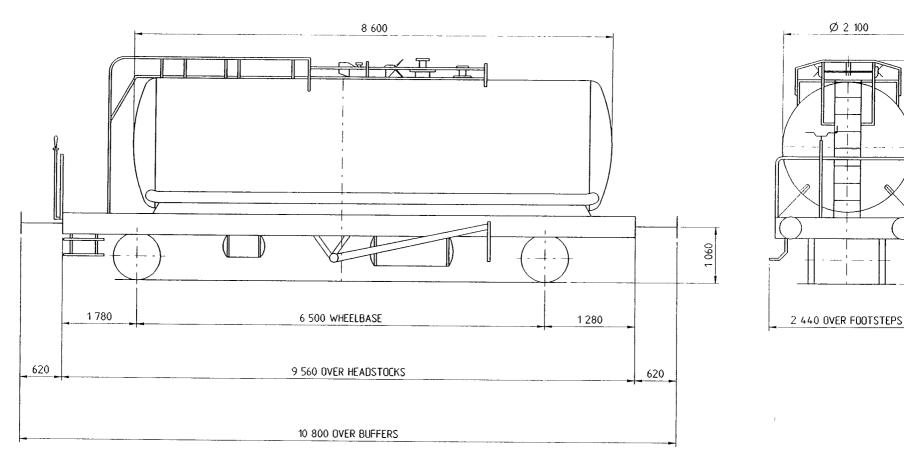
TARE-	10.97 t	
CAPACITY, WEIGH	4T- 25.03 t	
CAPACITY, VOLUI	ME- 26 m ³	
FLOOR AREA-	_	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	No 91022	

DUAL
DOUBLE LINK
INTERNATIONAL SCREW
_
Ø 1 000
Ø 130

TYPE-	Zf	
WAGON N	o 23 87 7191 022	
BUILDER-	FAUVET - GIREL	

40 t GLW 2 AXLE TANK

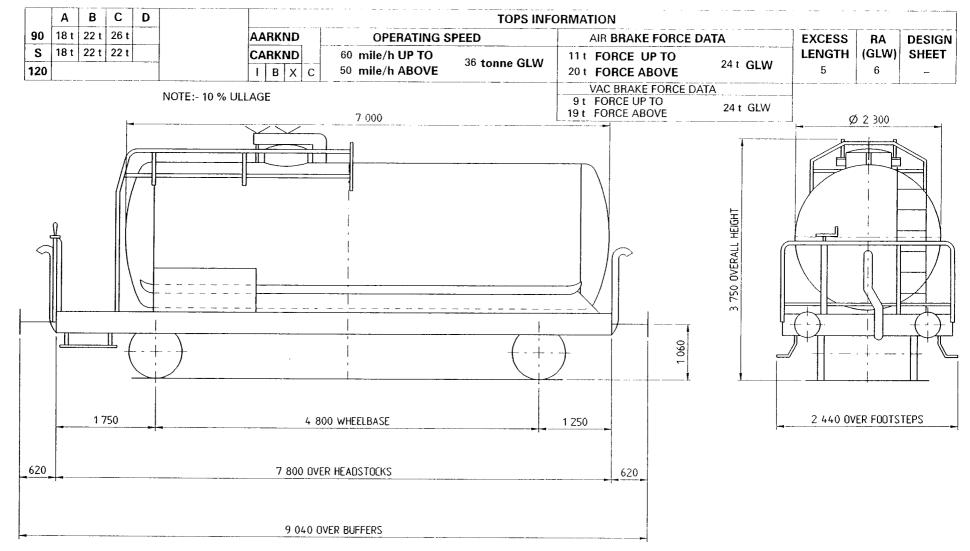
	Α	1	В	С	D		TOPS INFORMATION							
90	19.	.5t	23.5t	27.5		A	ARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	19.	.5t 2	23.5t	27.51		C	ARKND	60 mile/h UP TO	36 tonne GLW	5t FORCE UP TO	10+ 0144	LENGTH	(GLW)	SHEET
120	<u>L</u> .						B B B	50 mile/h ABOVE	50 toinie GLVV	15 t FORCE ABOVE	18 t GLW	7	6	-



TARE-	12.5 t	
CAPACITY, WEIGH	T- 27.5 t	
CAPACITY, VOLUM	//E- 28 m ³	
FLOOR AREA-		
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.I	No 2233.01.434	

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

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



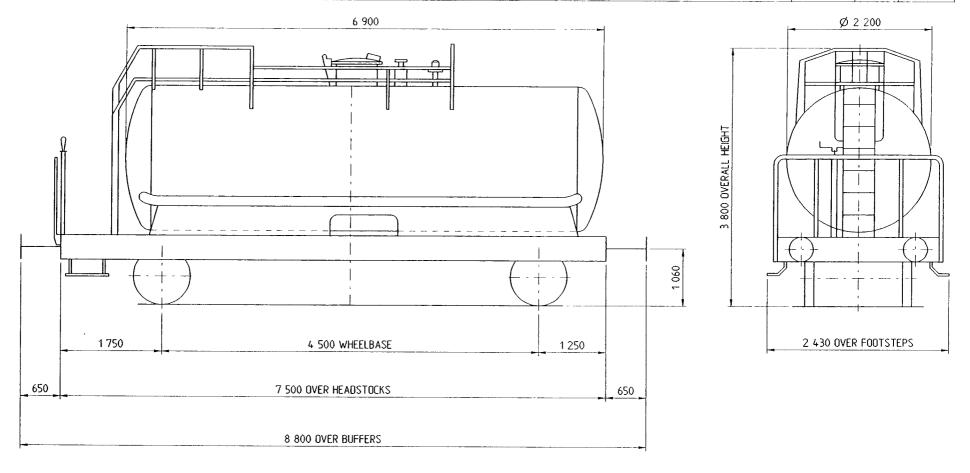
TARE-	14 t
CAPACITY, WEIGHT-	26 t
CAPACITY, VOLUME	- 26.4 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	

BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø 450 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

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

40 t GLW 2 AXLE TANK

	Α	В	С	D		TOPS INFORMATION						
90	21 t		29 t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	21 t	25 t	29 t		CARKND	60 mile/h UP TO	36 tonne GLW	5t FORCE UP TO	10.4.01114	LENGTH	(GLW)	SHEET
120					I B B C	50 mile/h ABOVE		15 t FORCE ABOVE	18 t GLW	4	6	-



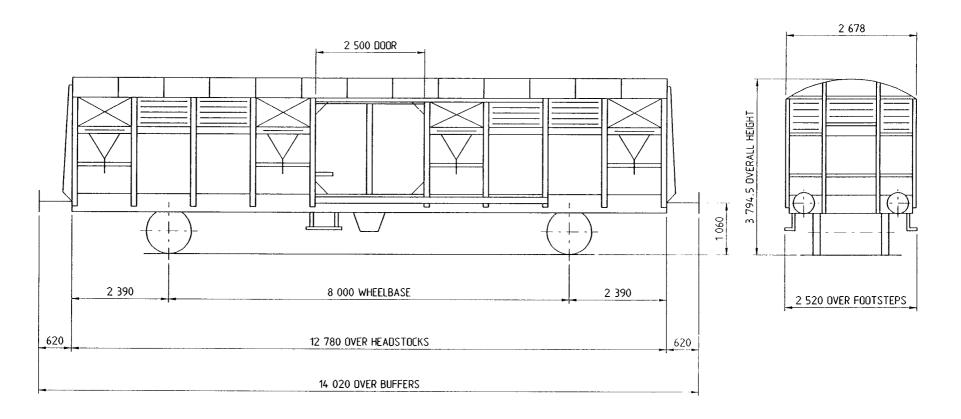
28.6 t
24 m³
60 m
-

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø380
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcfs
WAGON No	23 80 7391 016
BUILDER-	V.T.G.
OWNER-	V.T.G.

ILE 304

	Α	В	С	D			TOPS INFO	ORMATION				
90	18 t	22 t	26 t		AARKND	OPERATING S	SPEED	AIR BRAKE FORCE	DATA	EXCESS	RA	DESIGN
S	18 t	22 t	25 t		CARKND	60 mile/h UP TO	39 tonne GLW	7 t FORCE UP TO	24 t GLW	LENGTH	(GLW)	SHEET
120	<u> </u>				I L X L	50 mile/h ABOVE	33 tollife GLVV	20 t FORCE ABOVE	24 E GLVV	12	6	-
								VACUUM BRAKE FOR	RCE DATA			
								5 t FORCE UP TO	40 t GLW			

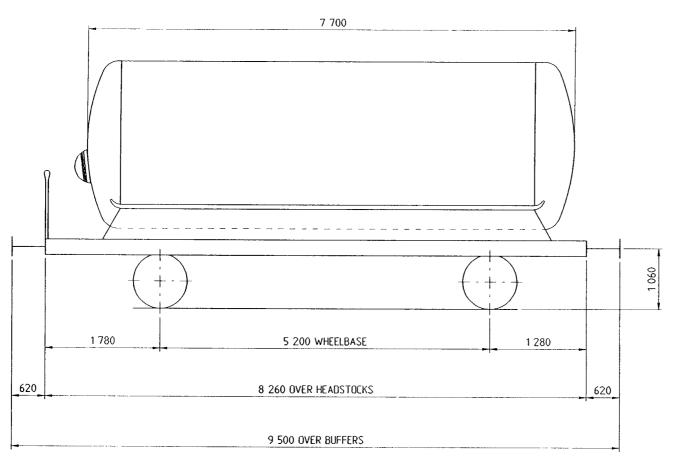


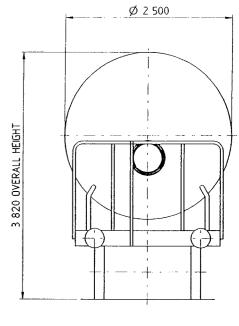
TARE-	14 t
CAPACITY, WEIGHT-	26 t
CAPACITY, VOLUME	- 69 m³
FLOOR AREA-	29 m²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	10.148160

BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Hbfs
WAGON N	o 21 87 2380 002 - 999 (RANGE)
BUILDER-	

	Α	- 1	В	С	D		·	TOPS INFO	RMATION				
90	18	t 2	22 t	26 t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	18	t 2	22 t	26 t		CARKND	60 mile/h UP TO	36 tonne GLW	6t FORCE UP TO	10 + 01 141	LENGTH	(GLW)	SHEET
120	<u></u>					 I B B C	50 mile/h ABOVE	30 tollie GLVV	15 t FORCE ABOVE	18 t GLW	5	6	





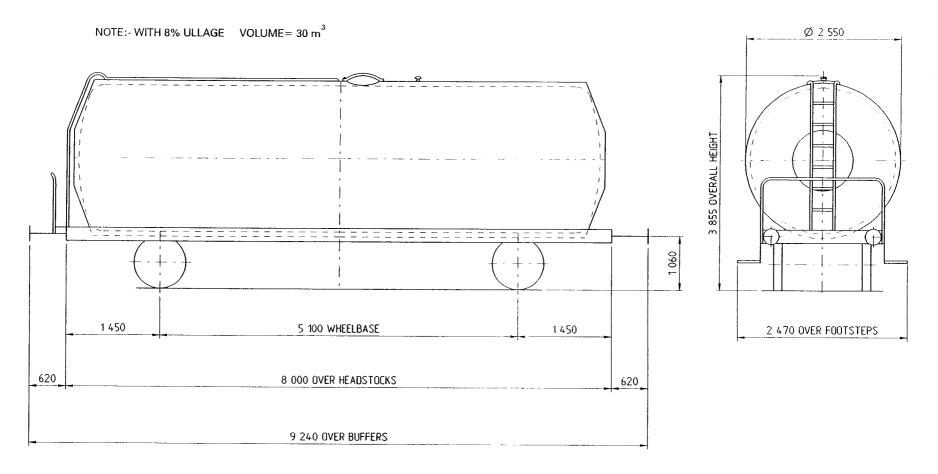
TARE-	14 t
CAPACITY, WEIGHT-	26 t
CAPACITY, VOLUME	- 35 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 2641.01.455

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø370
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zfgs	
WAGON No	23 80 7394 000	
BUILDER-	V.T.G.	

40 t GLW 2 AXLE TANK

	A B C D			TOPS INFO	PRMATION				
90	14.2t 23.2t 27.2t	AARKND	OPERATING S	PEED	BRAKE FORCE	ATA	EXCESS	RA	DESIGN
S	15.2t 23.2t 23.2t	CARKND	60 mile/h UP TO	36 tonne GLW	8t FORCE UP TO	20.4 01.44	LENGTH	(GLW)	SHEET
120		I B X C	50 mile/h ABOVE	30 tollile GLVV	16 t FORCE ABOVE	20 t GLW	5	6	-



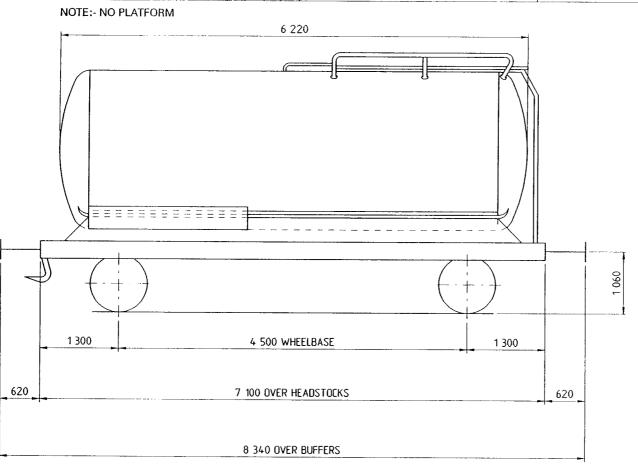
TARE-	13 t
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME-	32.5 m ³ (SEE NOTE)
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	-1-2-0-154

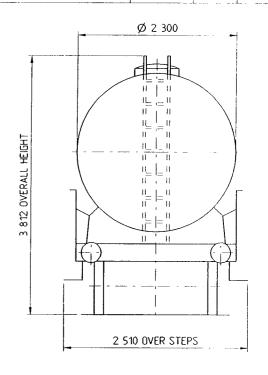
BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø400 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zefs
WAGON No	23 87 7397 000 - 001
BUILDER-	C.F.P.M.

Railfreight Distribution International Ferry Vehicles (Foreign Administration) Vehicle Diagram Book No. 340 36 t GLW 2 AXLE TANK

	1	4	В	С	D					TOPS INFO	RMATION		·	•	
90	21	- 1	25.8t	25.8t		AARK	ND		OPERATING SI	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S						CARK			50 mile/h UP TO	36 tonne GLW	5 t FORCE UP TO	264 01111	LENGTH	(GLW)	SHEET
120						1 B	Б	В	mile/h ABOVE	30 tomie GLVV	FORCE ABOVE	36 t GLW	4	5	-





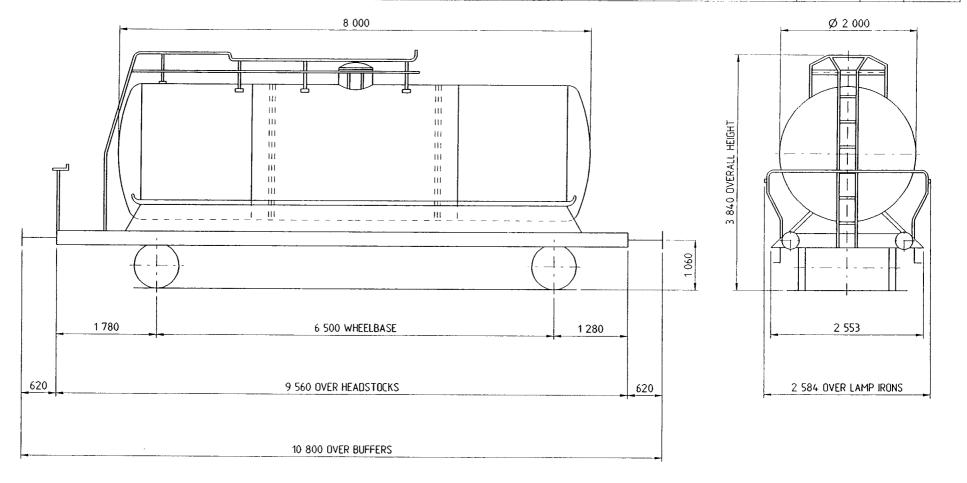
TARE-	10.23 t
CAPACITY, WEIGHT-	25.77 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	92685

BRAKE-	AIR & VAC THRO' PIPE: SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø400 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zf	
WAGON No	o 23 87 7190 503, 506	
BUILDER-	FAUVET GIREL	
OWNER-	ERMEWA	

40 t GLW 2 AXLE TANK

	Α	В	С	D			TOPS INFO	RMATION	· · · - · · · · · · · · · · · · · · · ·			
90	19.8t	23.8t	27.8t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	19.8t	23.8t	23.8t		CARKND	60 mile/h UP TO	36 tonne GLW	8t FORCE UP TO	20+ 0114	LENGTH	(GLW)	SHEET
120					I B B C	50 mile/h ABOVE	30 tollie GLVV	17 t FORCE ABOVE	20 t GLW	7	6	-

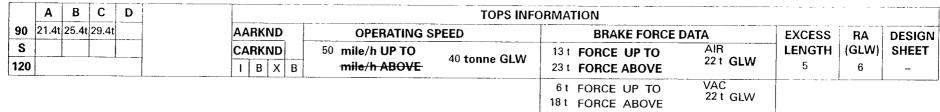


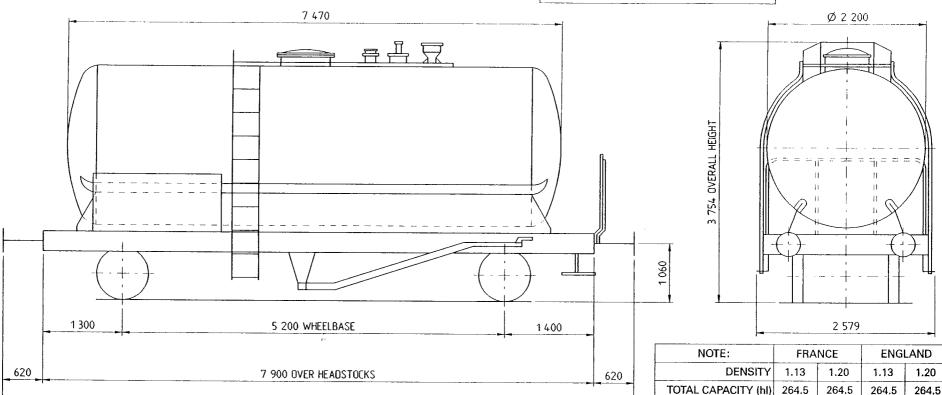
TARE-	12.2 t
CAPACITY, WEIGHT-	27.8 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	K192.01.01

BRAKE-	AIR & VAC THRO' PIPE: PLATFORM SCREW & SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø370
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcfs
WAGON No	23 80 7391 708-710
BUILDER-	GRAAFF
OWNER-	CONTINENTAL OIL TRANSPORT

IBE 318





TARE-	10.65t
CAPACITY, WEIGH	⊣T - 29.35t
CAPACITY, VOLUI	ME-26 m ³ (SEE NOTE)
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.	No 93167

BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370
WHEELS-	Ø 1000
JOURNALS-	Ø 130

TYPE-	Zcf
WAGON No	23 87 7191 021, 023
RI III NED	EALIVET GIRE!
	FAUVET-GIREL
BUILDER- OWNER-	FAUVET-GIREL ITEROX CHIMIE

4%

254

7.5%

244.5

15.2%

224.5

20.3%

211

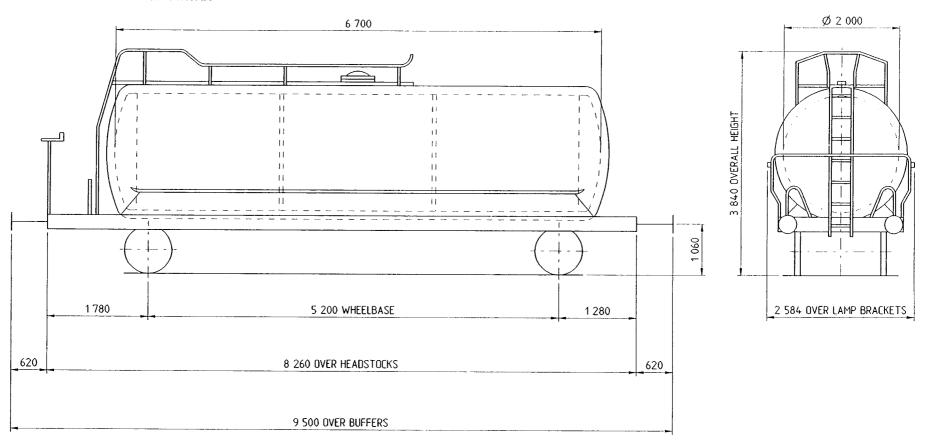
LOSS ON ROUTE

USEFUL CAPACITY (hi)

9 140 OVER BUFFERS

	- (Α	В	С	D		TOPS INFORMATION						
90	2	0.2t	24.2t	28.21	t	AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	2	0.2t	24.2t	28.21	<u> </u>	CARKND	60 mile/h UP TO	36 tonne GLW	8t FORCE UP TO	20 t GLW	LENGTH	(GLW)	SHEET
120)					I B B C	50 mile/h ABOVE	oo tollile GEW	17 t FORCE ABOVE	201 GLVV	5	6	-

NOTE: FITTED WITH HEATING DEVICES



TARE-	12.2 t
CAPACITY, WEIGHT-	27.8 t
CAPACITY, VOLUME-	· 20 m³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- K194.0101

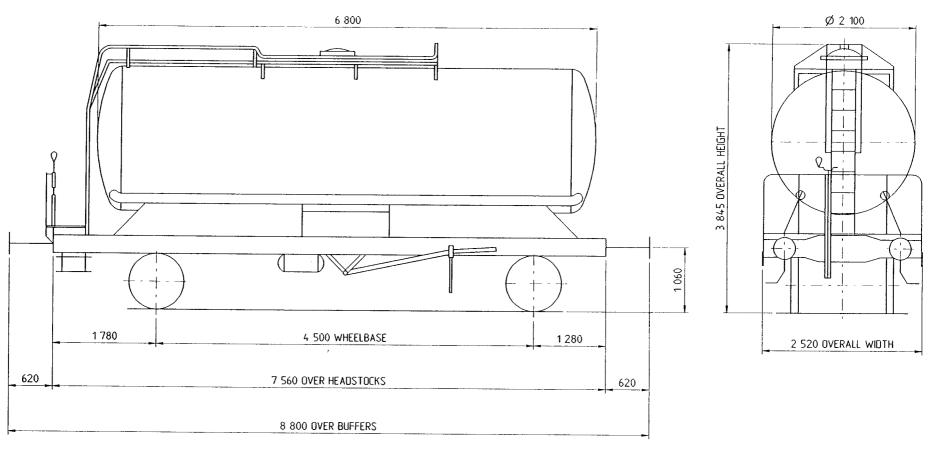
AIR & VAC THRO' PIPE: PLATFORM SCREW & SIDE LEVER
DOUBLE LINK
INTERNATIONAL SCREW
RINGFEDER Ø 370
Ø 1 000
Ø 130

TYPE-	Zcefs
WAGON No	23 80 7398 603, 23 80 7391 711-715, 717
BUILDER-	GRAAFF ELZE
OWNER-	CONTINENTAL OIL TRANSPORT

IBE 321

	Α	\	В	С	D		TOPS INFORMATION						
90	20.	.6t 2	24.6t	28.6	it	AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	20.	6t 2	24.6t	24.6	it	CARKND	60 mile/h UP TO	36 tonne GLW	6t FORCE UP TO	04	LENGTH	(GLW)	SHEET
120						I B B C	50 mile/h ABOVE	30 tonne GLVV	18 t FORCE ABOVE	21 t GLW	4	6	-

NOTE:- MAXIMUM LOADING FOR THIONYL CHLORIDE IS 25 t, 30% ULLAGE



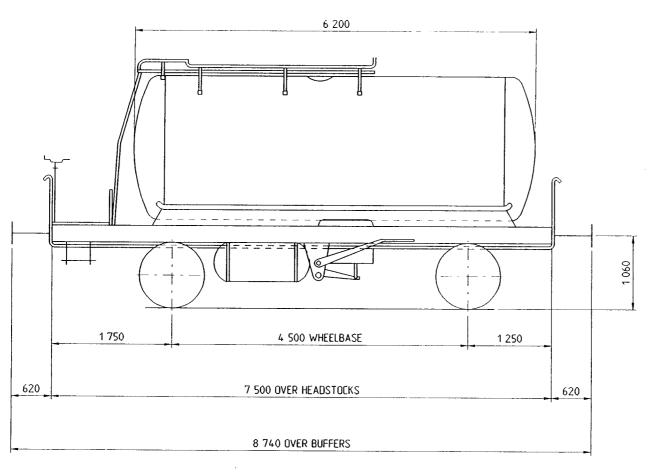
TARE-	11.4 t
CAPACITY, WEIGHT-	28.6 t
CAPACITY, VOLUME-	22 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	2219.01.479

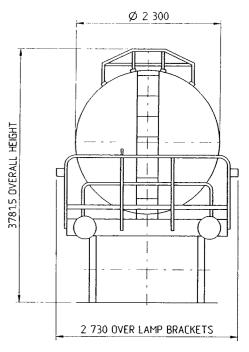
BRAKE-	AIR & VAC THRO' PIPE: PLATFORM SCREW & SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø 370
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

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

40 t GLW 2 AXLE TANK

	Α	В	С	D		TOPS INFORMATION						
90	21 t	25 t	29 t		AARKND	OPERATING S	SPEED	BRAKE FORCE D	PATA	EXCESS	RA	DESIGN
S	21 t	25 t	29 t		CARKND	60 mile/h UP TO	36 tonne GLW	5t FORCE UP TO	21 . 0114	LENGTH	(GLW)	SHEET
120					I B B B	50 mile/h ABOVE	oo tomie GLyy	18 t FORCE ABOVE	21 t GLW	4	6	-



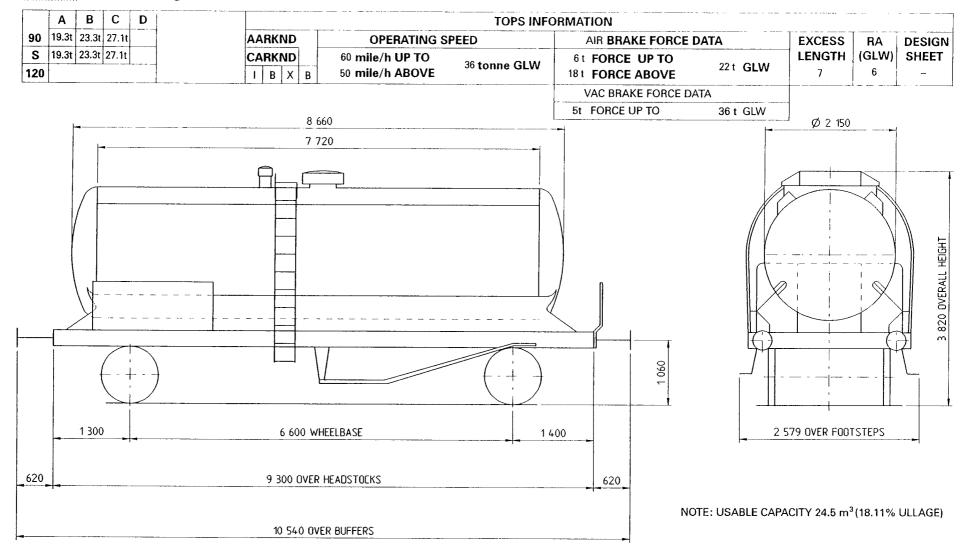


TARE-	11 t
CAPACITY, WEIGHT-	29 t
CAPACITY, VOLUME-	· 24 m³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- W14 76

BRAKE-	AIR & VAC THRO' PIPE, PLATFORM SCREW & SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

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

40 t GLW 2 AXLE TANK



TARE-	12.7 t
CAPACITY, WEIGHT-	27.3 t
CAPACITY, VOLUME-	30 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	93731

BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zfs
WAGON N	lo 23 87 7390 005, 006, 007
BUILDER-	FAUVET GIREL
DOILDLII-	

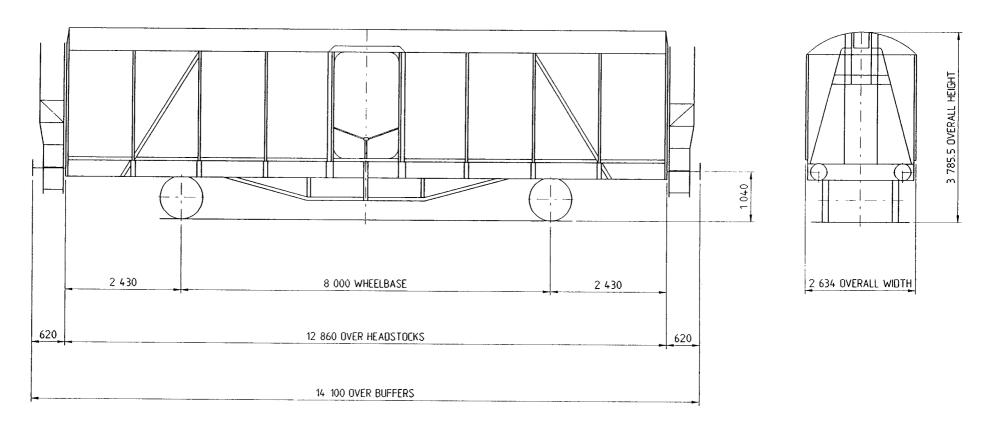


Railfreight Distribution International Ferry Vehicles (Foreign Administration) 36 t GLW 2 AXLE REFRIGERATOR VAN Vehicle Diagram Book No. 340

IIE 331

	Α	E	В	С	D		TOPS INFORMATION							
90	14 t	٠, ٠,	3 t	18 t		AARKND	OPERATING S	PEED	BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S	14 t	18	3 t	18 t		CARKND	60 mile/h UP TO	36 tonne GLW	8t FORCE UP TO	10+ 0114	LENGTH	(GLW)	SHEET	
120						I I B L	mile/h ABOVE		15 t FORCE ABOVE	18 t GLW	13	5	-	

NOTE: CAPACITY INCLUDES APPROX. 3t OF ICE



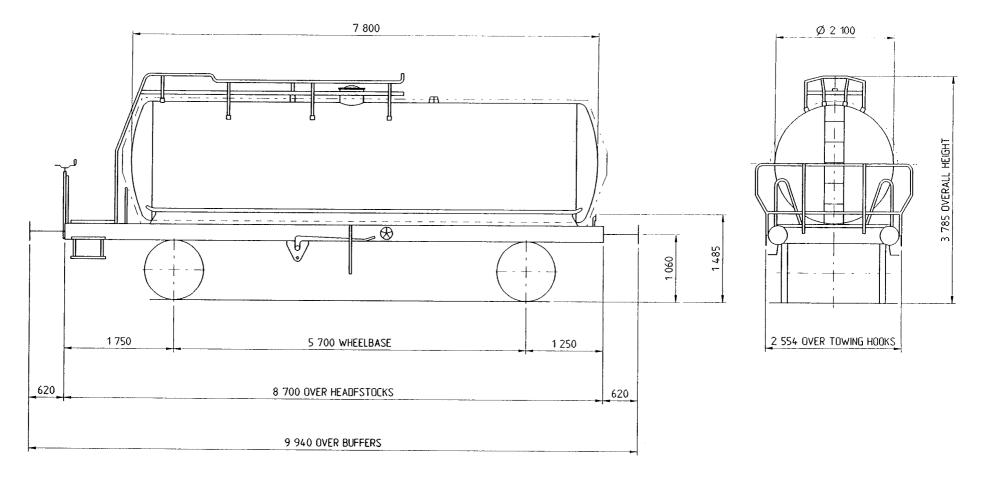
TARE-	18 t	
CAPACITY, WEIGH	iT- 18 t	
CAPACITY, VOLUM	VIE- 52 m ³	
FLOOR AREA-	24.5 m ²	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.I	No160	

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Ibefs
WAGON No	01 83 8092 510, 531
BUILDER-	F.S.

40 t GLW 2 AXLE TANK

	A	A B C D		TOPS INFORMATION							
90	19.	.6t 23.6t 27.6t	AARKND	OPERATING SPEED		BRAKE FORCE I	EXCESS	RA	DESIGN		
S	19.	.6t 23.6t 27.6t	CARKND	60 mile/h UP TO	40 tonne GLW	8t FORCE UP TO	21+ 0114	LENGTH	(GLW)	SHEET	
120			I B B C	mile/h ABOVE	toinie GLW	18 t FORCE ABOVE	21 t GLW	6	6	-	



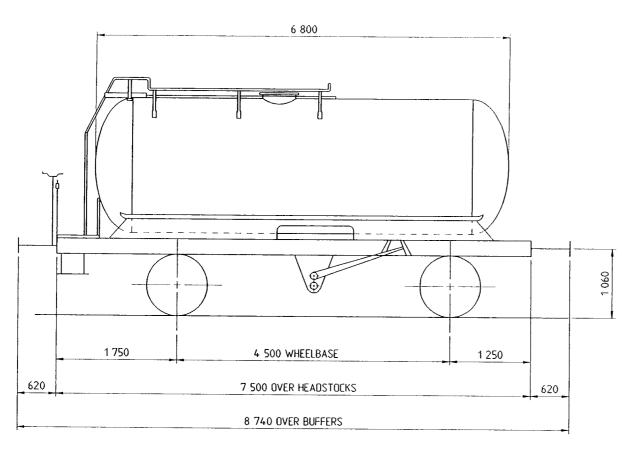
TARE-	12.4 t
CAPACITY, WEIGHT-	27.6 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	K 332.01.00

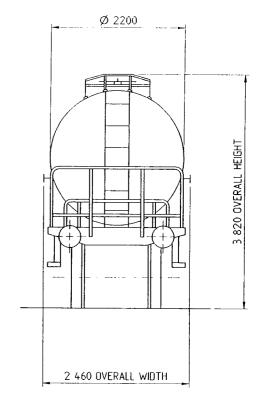
BRAKE-	AIR & VAC. THRO' PIPE PLATFORM SCREW & SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RING FEDER Ø 370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcfs Zcefs
WAGON No	23 80 7391 703-707 23 80 7398 401-405
BUILDER-	GRAAFF
OWNER-	CONTINENTAL OIL TRANSPORT
	* * * * * * * * * * * * * * * * * * * *

40t GLW 2 AXLE TANK

	A B	C D		TOPS INFORMATION							
90	21 t 25 t	29 t	AARKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S	21 t 25 t	29 t	CARKND	60 mile/h UP TO 36 tonne GLW		6t FORCE UP TO	40 . 0114	LENGTH	(GLW)	SHEET	
120			I B B C	50 mile/h ABOVE	— - Tolline GLVV	16 t FORCE ABOVE	19 t GLW	5	6	-	





TARE-	10.4 t
CAPACITY, WEIGHT-	29.6 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA-	•
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	W 1556

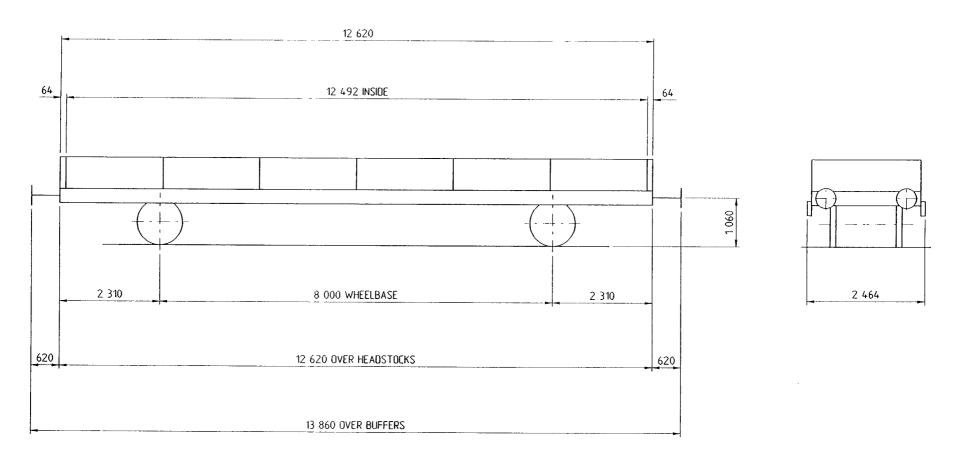
BRAKE- AIR V	AC THRO' PIPE .PLATFORM SCREW & SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	U.I.C.
BUFFERS-	RINGFEDER
WHEELS-	Ø 1000
JOURNALS-	Ø 130

TYPE-	Zfs
WAGON No	23 80 7390 408-416
BUILDER-	KAMINSKI



40 t GLW 2 AXLE OPEN WAGON IFE 342

	Α	В	С	D		TOPS INFORMATION								
90	20.5	t 24.51	28.5t	<u> </u>	AARKND	OPERATING S	SPEED	BRAKE FORCE DATA		EXCESS	RA	DESIGN		
S	1	t 24.51	24.5t		CARKND	60 mile/h UP TO	36 tonne GLW	5t FORCE UP TO	10 + CLIM	LENGTH	(GLW)	SHEET		
120					I F B B	50 mile/h ABOVE	SO LOTTILE GLVV	15 t FORCE ABOVE	18 t GLW		6	W3030		



TARE-	11.5 t
CAPACITY, WEIGHT-	28.5 t
CAPACITY, VOLUME-	12.5 m ³
FLOOR AREA-	27.8 m²
MIN.CURVE-	
GEN.ARRGT.DRG.No.	· 10 184 153 S.N.C.F.

BRAKE-	AIR, VAC THRO' PIPE; SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	_
WHEELS-	Ø -
JOURNALS-	Ø -

TYPE-	Lfls
WAGON No	21 87 4145 200-229, 231, 233, 234,236-251 254-264, 266-288, 290-293, 295-299 25 87 4145 230, 232, 235, 252, 253, 265, 289, 294
BUILDER-	_
OWNER-	S.N.C.F.

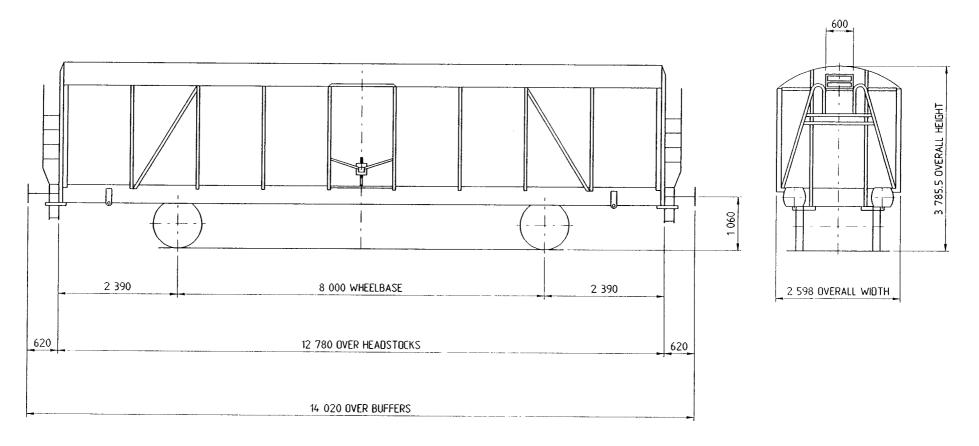


90 S 120

Railfreight Distribution International Ferry Vehicles (Foreign Administration) Vehicle Diagram Book No. 340 40 t GLW 2 AXLE REFRIGERATOR VAN

IIE 348

Α	В	С	D		TOPS INFORMATION									
14 t	18 t	22 t		AARKND	OPERATING S	PEED	BRAKE FORCE	EXCESS	RA	DESIGN				
14 t	18 t	18 t		CARKND I I B H	60 mile/h UP TO 50 mile/h ABOVE	36 tonne GLW	9t FORCE UP TO 18t FORCE ABOVE	21 t GLW	LENGTH 12	(GLW) 6	SHEET -			



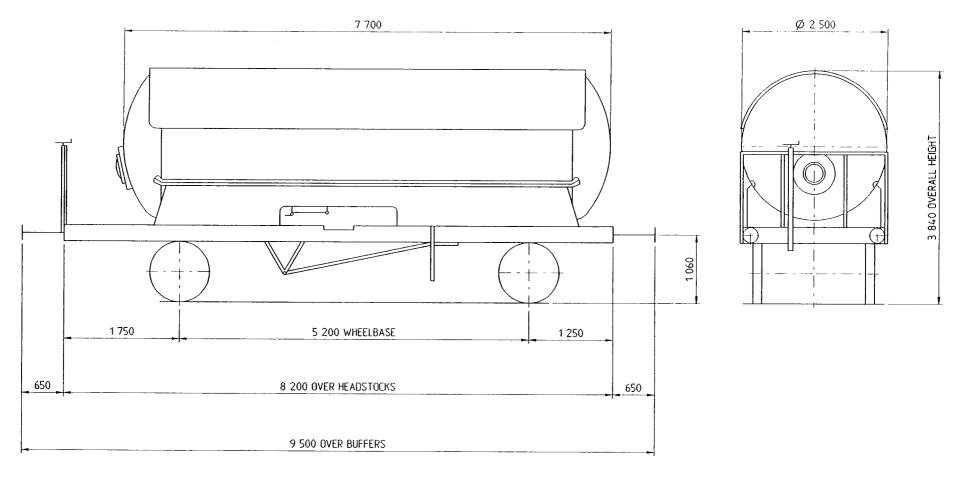
TARE-	18 t
CAPACITY, WEIGHT-	22 t
CAPACITY, VOLUME-	44 m ³
FLOOR AREA-	23.5 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	IF 01/1

BRAKE-	AIR & VAC THRO' PIPE; SIDE LEVER				
SUSPENSION-	DOUBLE LINK				
COUPLINGS-	INTERNATIONAL SCREW				
BUFFERS-	HYDRAULIC				
WHEELS-	Ø 1 000				
JOURNALS-	Ø 130				

TYPE-	lbefs
WAGON No	04 83 8092 430 - 456, 458 - 476, 478 - 484
BUILDER-	BRUGEOISE & NIVELLES BRUGES

34.5 t GLW 2 AXLE TANK

	Α	В	C	D		TOPS INFORMATION								
90	18t	20.6	t 20	6t	AARKND	OPERATING :	BRAKE FORCE D	EXCESS	RA	DESIGN				
S	18t	20.6	it 20	6t	CARKND	60 mile/h UP TO	34.5 tonne GLW	10 t FORCE UP TO	24.4 01114	LENGTH	(GLW)	SHEET		
120					I B B B	mile/h ABOVE	54.5 COMPE GLVV	18 t FORCE ABOVE	21 t GLW	5	4	-		



TARE-	14 t
CAPACITY, WEIGHT-	20.5 t
CAPACITY, VOLUME-	35 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 2641.01.532

BRAKE-	AIR & VAC THRO' PIPE; PLATFORM SCREW & SIDE LEVER		
SUSPENSION-	DOUBLE LINK		
COUPLINGS-	INTERNATIONAL SCREW		
BUFFERS-	RINGFEDER Ø370		
WHEELS-	Ø 1 000		
JOURNALS-	Ø 130		

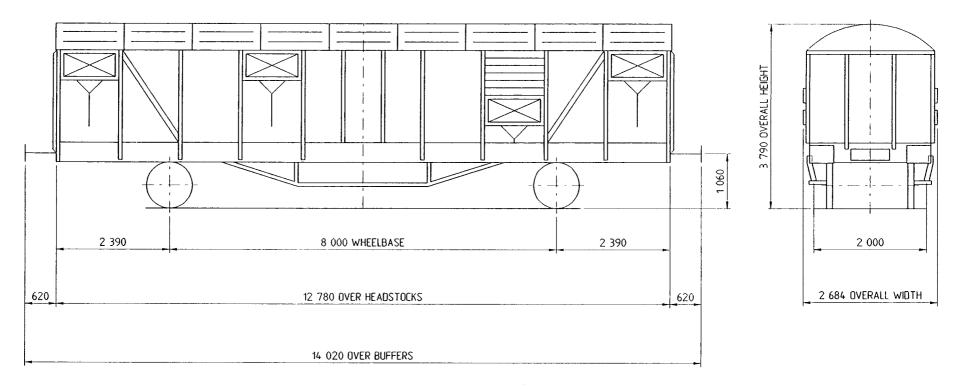
TYPE-	Zfgkks
WAGON No	- 23 80 7492 001
BUILDER-	V.T.G.
OWNER-	V.T.G.

40 t GLW 2 AXLE VAN

ILE 353

	Α	В		С	D		TOPS INFORMATION							
90	17.5		5t 2	5.5t		A	AARKND	OPERATING S	PEED	BRAKE FORCE D	PATA	EXCESS	RA	DESIGN
S	17.5	t 21.	5t 2	1.5t			CARKND	60 mile/h UP TO	36 tonne GLW	7t FORCE UP TO	104 0114	LENGTH	(GLW)	SHEET
120							I L B L	50 mile/h ABOVE	20 forme Gray	15 t FORCE ABOVE	18 t GLW	12	6	-

NOTE ; - LENGTH OF LOAD	CARRYING CAPACITY		
1.5 m IN THE MIDDLE	13.78 t		
3.0 m IN THE MIDDLE	15.74 t		



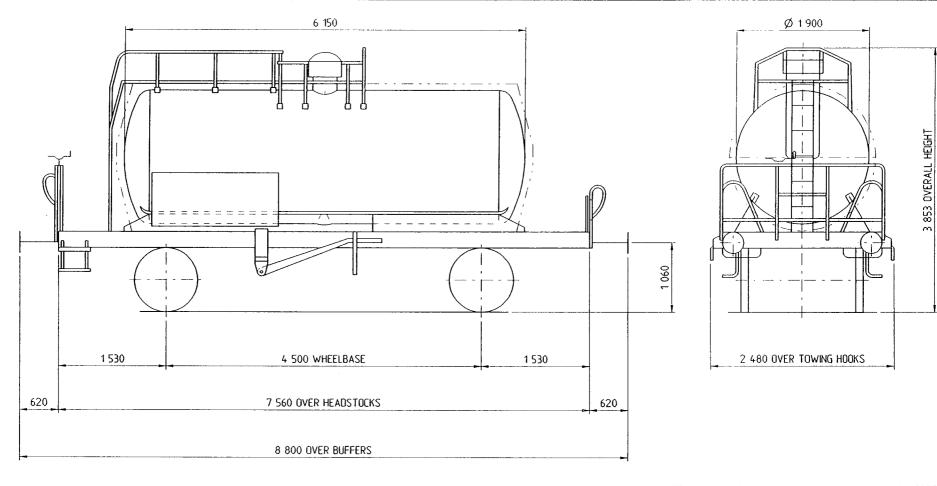
TARE-	14.5 t			
CAPACITY, WEIGHT-	25.5 t			
CAPACITY, VOLUME-	66 m ³			
FLOOR AREA-	28.5 m ²			
MIN.CURVE-	60 m			
GEN.ARRGT.DRG.No.	-459.9.502.00.00,0			

BRAKE-	AIR & VAC THRO' PIPE: SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC 450x350 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Hbfs
WAGON No	21 54 2380 000-062, 064-099
BUILDER-	TATRA POPRAD
OWNER-	C.S.D.
	47.40.00 10.019 0

40 t GLW 2 AXLE TANK

	Α	В	3	С	D		TOPS INFORMATION						
90	16.9	et 20.	9t 2	24.9t		AARKND	ND OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN
S	16.9)t 20.	9t 2	20.9t		CARKND	60 mile/h UP TO	36 tonne GLW	6t FORCE UP TO	18 t GLW	LENGTH	(GLW)	SHEET
120						I B B C	50 mile/h ABOVE	30 tomie GLVV	15 t FORCE ABOVE	IO C GLVV	4	6	-



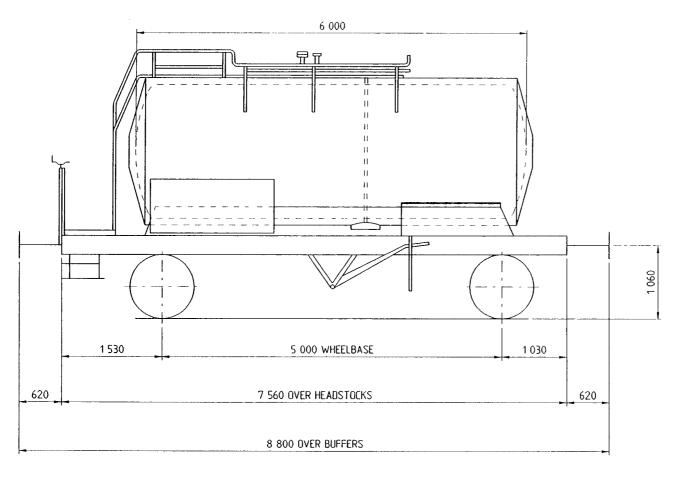
TARE-	15.1 t						
CAPACITY, WEIGHT-	24.9 t						
CAPACITY, VOLUME-16 m ³							
FLOOR AREA-	_						
MIN.CURVE- 60 m							
GEN.ARRGT.DRG.No2013.01.536							

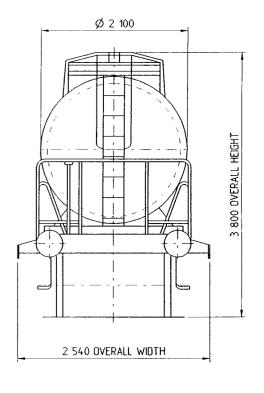
BRAKE-	AIR & VAC THRO' PIPE: SIDE LEVER & PLATFORM SCREW
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø 370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcfs	Zcfkks
WAGON No		7391 017-023 7491 000-012
BUILDER-	V.T.G.	
OWNER-	V.T.G.	

40 t GLW 2 AXLE TANK

	Α	В		С	D	DB	С		TOPS INFORMATION							
90	19.3t	23.3		27.3t		DNF,		AA	ARKND	OPERATING S	PEED	BRAKE FORCE I	DATA	EXCESS	RA	DESIGN
S	19.3t	23.3	3t 2	23.3t		S	27.3t	CA	ARKND	60 mile/h UP TO	36 tonne GLW	6t FORCE UP TO	24 + CLV	LENGTH	(GLW)	SHEET
120								I	в в с	50 mile/h ABOVE	30 tollie GLVV	20 t FORCE ABOVE	24 t GLW	4	6	_

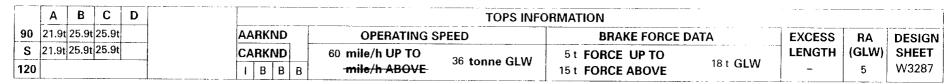


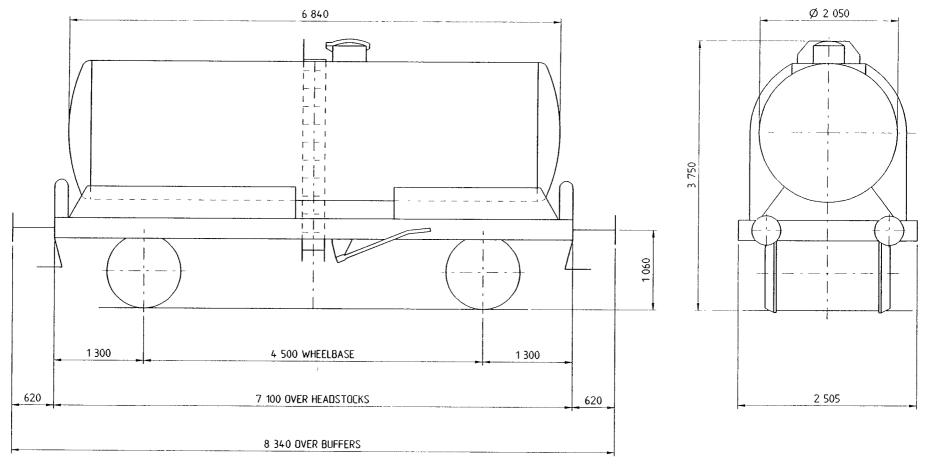


TARE-	12.7 t
CAPACITY, WEIGHT-	27.3 t
CAPACITY, VOLUME-	18 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 2017.01.541

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø370 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcfs						
WAGON No	23 80 7391 024, 025						
5111 555	N= 0						
BUILDER-	V.T.G.						
OWNER-	V.T.G.						





TARE-	10.1 t
CAPACITY, WEIGHT-	25.9 t
CAPACITY, VOLUME-	20,000
FLOOR AREA-	_
MIN.CURVE-	-
GEN.ARRGT.DRG.No.	- PL 460

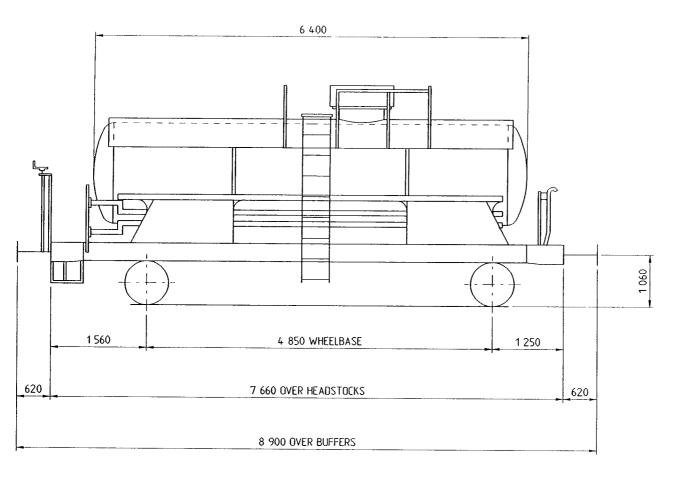
BRAKE-	AIR, VAC THRO' PIPE; HAND LEVER
SUSPENSION-	_
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	_
WHEELS-	Ø -
JOURNALS-	Ø -

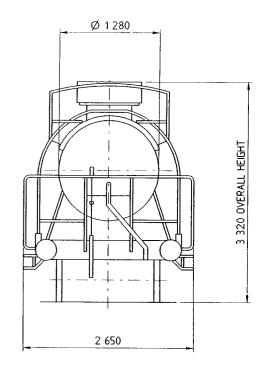
TYPE-	Zfs
WAGON No.	- 23 87 7390 501
BUILDER-	ATELIERS DE JOIGNY S.A.



36 t GLW 2 AXLE TANK

	1	4	В	С	D		TOPS INFORMATION						
90	18	.3t	22.31	22.3t		AARKND	OPERATING SPEED BRAKE FORCE DA		DATA	EXCESS	RA	DESIGN	
S	18	.3t	22.3t	22.3t		CARKND	60 mile/h UP TO	36 tonne GLW	6t FORCE UP TO		LENGTH	(GLW)	SHEET
120						I B B C	mile/h ABOVE	oo tomie Gryy	15 t FORCE ABOVE	18 t GLW	4	5	-





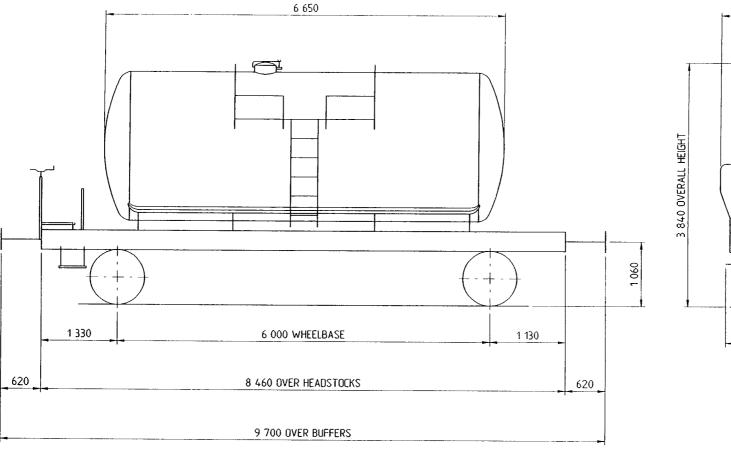
TARE-	13.7 t
CAPACITY, WEIGHT-	22.3 t
CAPACITY, VOLUME-	17.8 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	3 110264

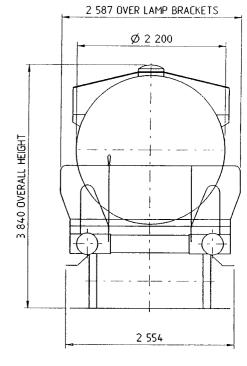
BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø 450 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zfgkks
WAGON No	23 85 7492 200, 201, 700
BUILDER-	JOSEPH MEYER

40 t GLW 2 AXLE TANK

		A	В	С	D		TOPS INFORMATION							
90	19	.5t	23.5t	27.5	t	AARKND	OPERATING S	PEED	BRAKE FORCE D	EXCESS	RA	DESIGN		
S	19	.5t	23.5t	23.5	t	CARKND	60 mile/h UP TO	36 tonne GLW	9t FORCE UP TO	25 4 20 114	LENGTH	(GLW)	SHEET	
120						I B B C	50 mile/h ABOVE	30 tonne GLVV	21 t FORCE ABOVE	25 t GLW	6	6	_	





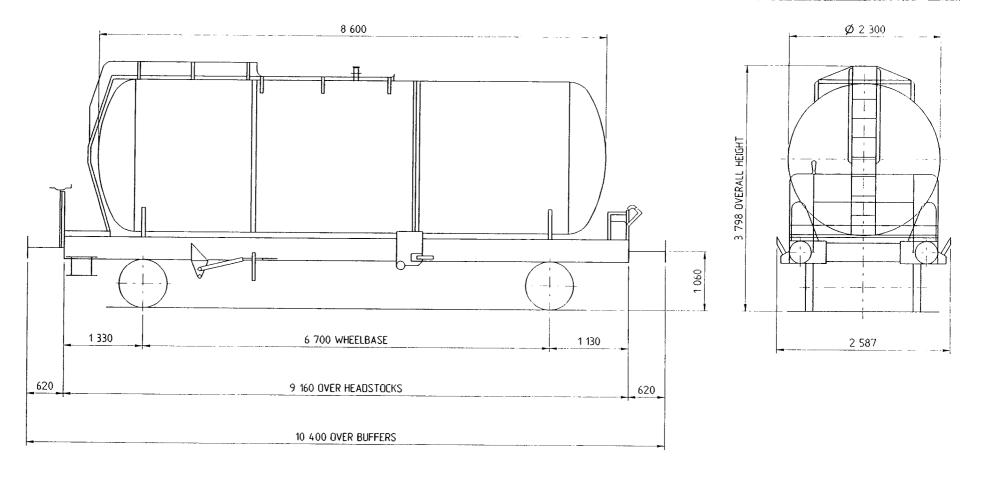
TARE-	12.5 t
CAPACITY, WEIGHT-	27.5 t
CAPACITY, VOLUME-	24.4 m
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	-410-1

BRAKE-	AIR; VAC THRO' PIPE
SUSPENSION-	SINGLE LINK: 9 PLATE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø 370 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

Zcefs	
23 80 7398 400	
DB MINDEN	

40 t GLW 2 AXLE TANK

	Α	\	В	С	D			TOPS INFORMATION								
90	19.	4t 2	3.4t	27.4	t		AARKND	OPERATING S	PEED	BRAKE FORCE D	EXCESS	RA	DESIGN			
S	19.	4t 2	3.4t	27.4	lt	-	CARKND	60 mile/h UP TO	40 tonne GLW	10 t FORCE UP TO	25 4 0114	LENGTH	(GLW)	SHEET		
120	<u>L</u> .					<u> </u>	I B B C	mile/h ABOVE		21 t FORCE ABOVE	25 t GLW	7	6	-		



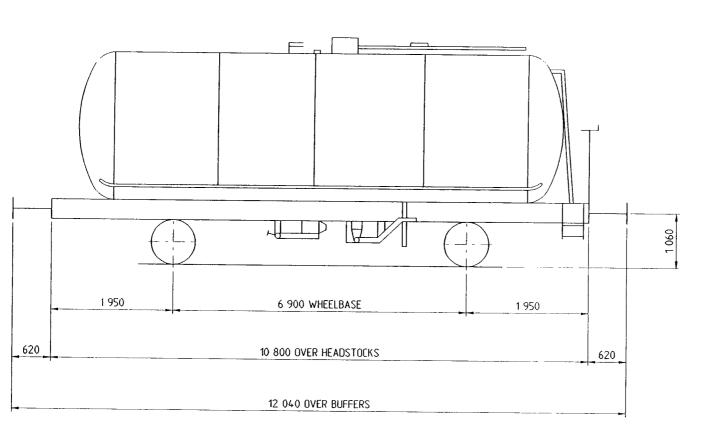
TARE-	12.35 t
CAPACITY, WEIGHT-	27.65 t
CAPACITY, VOLUME-	34 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	K 360.01.00

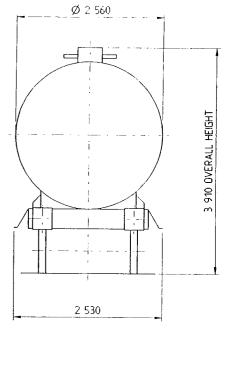
BRAKE-	AIR; VAC THRO'PIPE
SUSPENSION-	SINGLE LINK: 9 PLATE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zcfs
WAGON No	23 80 7391 026-034
BUILDER-	GRAFFE ELZE

40 t GLW 2 AXLE TANK

	A B C D		TOPS INFORMATION										
90	19.4t 23.4t 27.4t	AARKND	OPERATING S	PEED	BRAKE FORCE DATA EX		EXCESS	RA	DESIGN				
S	19.4t 23.4t 23.4t	CARKND	60 mile/h UP TO	36 tonne GLW	13 t FORCE UP TO	21 + 01 14	LENGTH	(GLW)	SHEET				
120		I B B C	50 mile/h ABOVE		23 t FORCE ABOVE	21 t GLW	9	6	-				





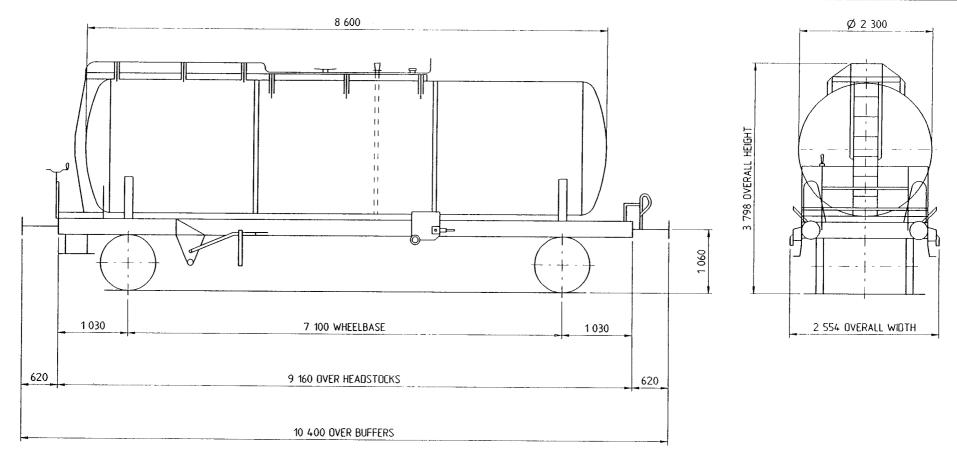
TARE-	12.6 t	
CAPACITY, WEIGH	IT- 27.4 t	
CAPACITY, VOLUI	VIE- 38 m ³	
FLOOR AREA-	-	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	No C.1553.1	

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

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

40 t GLW 2 AXLE TANK

	Α		В	С	D	DE			TOPS INFORMATION							
90	19		23 t	27 t	<u> </u>	ON	- [AARKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S	19	t 2	23 t	23 t	<u></u>	S	27 t	CARKND	60 mile/h UP TO	36 tonne GLW	61 FORCE UP TO	01 + 01 141	LENGTH	(GLW)	SHEET	
120						<u> </u>		I B B C	50 mile/h ABOVE	50 tollile GLVV	18 t FORCE ABOVE	21 t GLW	7	6	-	



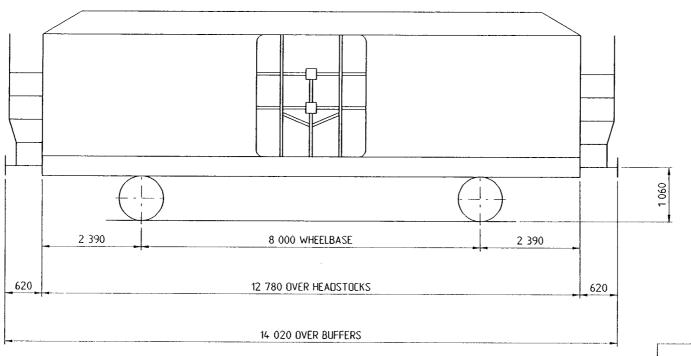
TARE-	13 t
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME	- 34 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	K376.01.00

BRAKE-	AIR & VAC THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø 450 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zcfs
WAGON No	23 80 7391 035-037, 039-042, 044, 045
BUILDER-	GRAAFF ELZE

IIE 375

	Α	В	С	D			TOPS INFO	RMATION				
90	17.8	t 21.8	t 25.8t	1	AARKND	OPERATING S	PEED	BRAKE FORC	E DATA	EXCESS	RA	DESIGN
S	17.8	t 21.81	25.8t		CARKND	60 mile/h UP TO	40 tonne GLW	FORCE UP TO	a + (b x tonnes)	LENGTH	(GLW)	SHEET
120					I I B L	mile/h-ABOVE	40 tollile GLVV	FORCE ABOVE	3.25 + (0.72 x t)	12	6	-



	3 832 OVERALL HEIGHT
2 590	

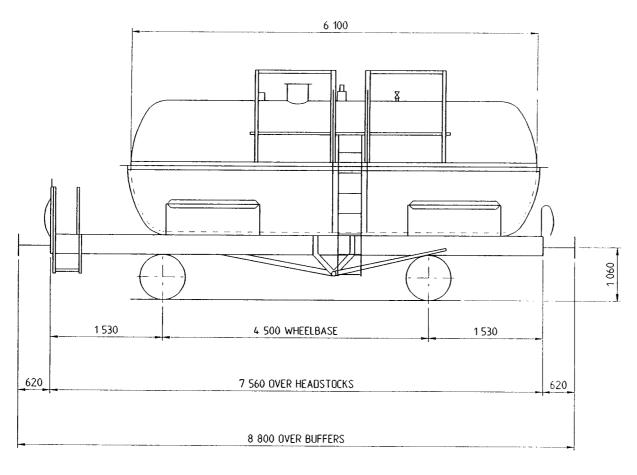
TARE-	14.25 t
CAPACITY, WEIGHT-	25.75 t
CAPACITY, VOLUME	- 44 m ³
FLOOR AREA-	23.6 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	<u>- 2138</u>

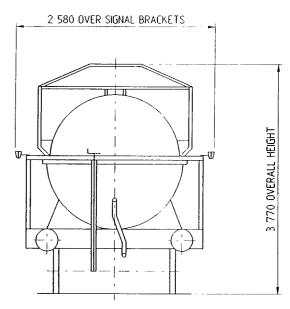
BRAKE-	AIR & VACUUM THRO' PIPE; SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Ibefhs II	befhps				
WAGON No	03 83 8089 03 83 8087 11 83 0887	7 205	979	(RANG	E)	
BUILDER-	SNIA VISC	OSA				
OWNER-	INTERFRIC	Ю				

36 t GLW 2 AXLE TANK

A B C D			TOPS INFO	PRMATION				
90 18.6t 22.6t 22.6t	AARKND	OPERATING S	PEED	BRAKE FORCE I	DATA	EXCESS	RA	DESIGN
S	CARKND	50 mile/h UP TO	36 tonne GLW	9t FORCE UP TO	20+ 01144	LENGTH	(GLW)	SHEET
120	I B B B	mile/h ABOVE		17 t FORCE ABOVE	20 t GLW	4	5	-





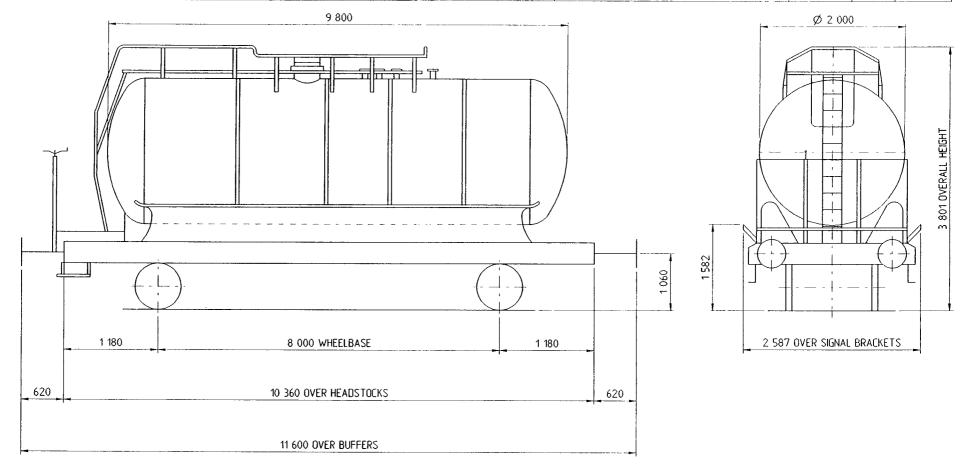
TARE-	13,4 t
CAPACITY, WEIGHT-	22.6 t
CAPACITY, VOLUME-	13.5 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 01.578

BRAKE-	AIR; VACUUM THRO' PIPE
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zcefkk
WAGON No.	23 80 7187 000
BUILDER-	LINKE-HOFMANN-BUSCH

40 t GLW 2 AXLE TANK

	A	A	В	С	D		TOPS INFORMATION						
90		Вt	22 t	26 t		AARKND	OPERATING S	PEED	BRAKE FORCE (DATA	EXCESS	RA	DESIGN
S	18	3 t	22 t	22 t		CARKND	60 mile/h UP TO	36 tonne GLW	10 t FORCE UP TO	25 + 2111	LENGTH	(GLW)	SHEET
120)					I B A B	50 mile/h ABOVE	30 toline GLVV	21 t FORCE ABOVE	25 t GLW	9	6	-



TARE-	14 t
CAPACITY, WEIGH	T- 26 t
CAPACITY, VOLUM	/IE- 30 m ³
FLOOR AREA-	
MIN.CURVE-	_60 m
GEN.ARRGT.DRG.	No K 383 01 00

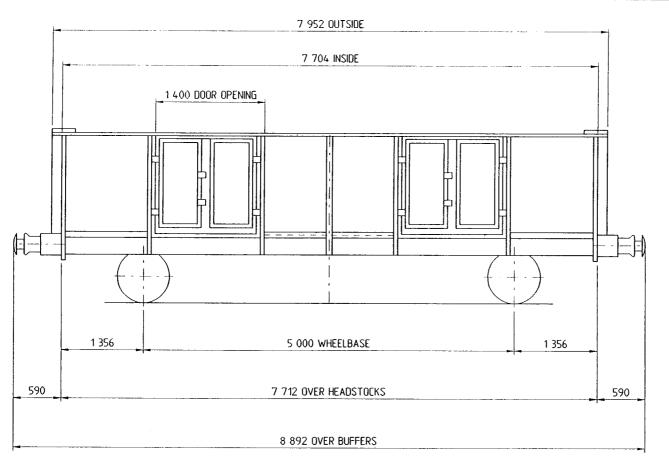
AIR; PLATFORM & SIDE LEVER
SINGLE LINK 9 X 1 400 SPRINGS
INTERNATIONAL SCREW
RINGFEDER
Ø 940
Ø 130

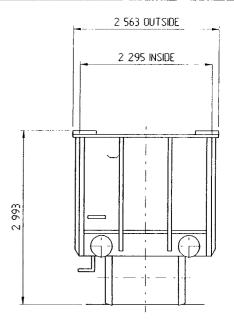
TYPE-	Zcfs
WAGON No	23 80 7391 046
BUILDER-	GRAAF ELZE



Railfreight Distribution International Ferry Vehicles (Foreign Administration) 40 t GLW 2 AXLE HIGH OPEN WAGON IOE 390 Vehicle Diagram Book No. 340

	Α	В	С	D	TOPS INFORMATION							
90	21.5	t 25.5t	29.5	t	AARKND	OPERATING SI	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	21.5	t 25.5t	25.5	t	CARKND	60 mile/h UP TO	36 tonne GLW	7 t FORCE UP TO	21 t GLW	LENGTH	(GLW)	SHEET
120				-	 I O B B	50 mile/h ABOVE	oo tomic GEV	18 t FORCE ABOVE	ZIT GLVV	_	6	-





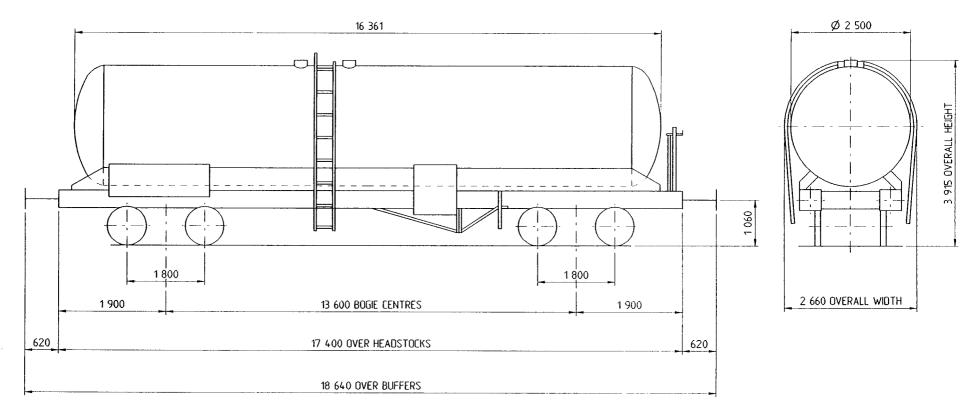
TARE-	10.5 t
CAPACITY, WEIGH	iT - 29.5 t
CAPACITY, VOLUM	VIE- 30.4 m ³
FLOOR AREA-	17.7 m ²
MIN.CURVE-	_
GEN.ARRGT.DRG.I	No 10.188 015

BRAKE-	AIR, VAC THRO' PIPE; LEVER
SUSPENSION-	-
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	-
WHEELS-	Ø 1 000
JOURNALS-	Ø -

TYPE-	Ffs
WAGON No	- 21 87 6094 000-010, 012-049
BUILDER-	S.N.C.F.

ICE 394

	/	A	В	С	D	TOPS INFORMATION							
90	57	7 t	57 t	57 t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	5	7 t	57 t	57 t		CARKND	60 mile/h UP TO	80 tonne GLW	15 t FORCE UP TO	40+ 01144	LENGTH	(GLW)	SHEET
120						 I C B D	-mile/h ABOVE	oo tomie GLVV	37 t FORCE ABOVE	40 t GLW	10	6	



TARE-	23 t
CAPACITY, WEIGHT-	57 t
CAPACITY, VOLUME-	77 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	98599

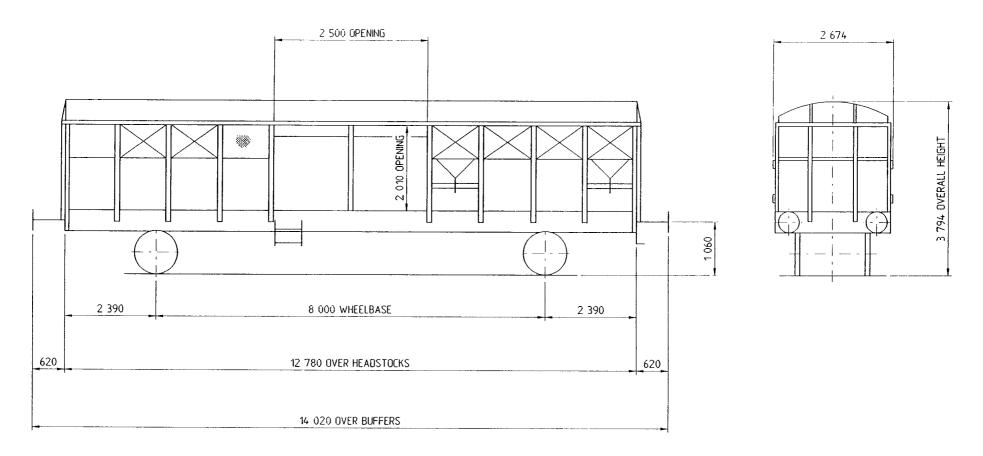
BRAKE-	AIR; VACUUM THRO' PIPE
SUSPENSION-	Y 25 C BOGIE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC U5
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zacfs
WAGON No	33 87 7895 000-006
BUILDER-	FAUVET-GIREL
OWNER-	ERMEWA
CANISEU-	LIMILIAN

35.5 t GLW 2 AXLE VAN

ILE 415

	L	Α	В	С	D			TOPS INFO	RMATION	"	. =, .,		
90) 1	17.5t	21.5	t 21.	5t	AARKND	OPERATING S	SPEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	1	17.5t	21.5	t 21.	ōt	CARKND	60 mile/h UP TO	35.5 tonne GLW	7 t FORCE UP TO	04 4 01 144	LENGTH	(GLW)	SHEET
12	0					I L B L	mile/h ABOVE	39.5 tonne GLVV	18 t FORCE ABOVE	21 t GLW	12	6	_



TARE-	14 t	
CAPACITY, WEIGH	T- 21.5 t	
CAPACITY, VOLUM	IE- 69 m ³	
FLOOR AREA-	28.7 m ²	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.N	io304379	

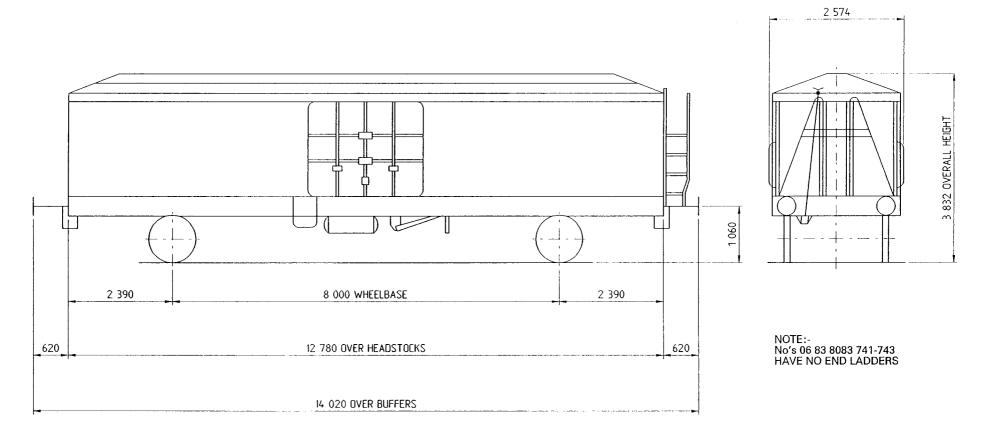
BRAKE-	AIR; VACUUM THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Hbfkks	
WAGON No	o 21 72 2390 000-064	
BUILDER-	FRANCO BELGE	



Railfreight Distribution International Ferry Vehicles (Foreign Administration) Vehicle Diagram Book No. 340 40 t GLW 2 AXLE REFRIGERATOR VAN

	A B C D		ТО	PS INFORMATION	
90	18.5t 22.5t 26.5t	AARKND	OPERATING SPEED	BRAKE FORCE DATA	EXCESS RA DESIGN
S	18.5t 22.5t 22.5t	CARKND	45 mile/h UP TO 40 tonne	GLW 14 t FORCE UP TO 28 t GLW	LENGTH (GLW) SHEET
120		I I X L	mile/h ABOVE	24 t FORCE ABOVE	12 6 –



TARE-	13 t
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME-	51 m ³
FLOOR AREA-	26.5 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	- 56

BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	
WHEELS-	Ø - P10 PROFILES
JOURNALS-	Ø -

TYPE-	lbfggps	
WAGON No	06 83 8083 741-750	
BUILDER-	SNIA VISCOSA	_

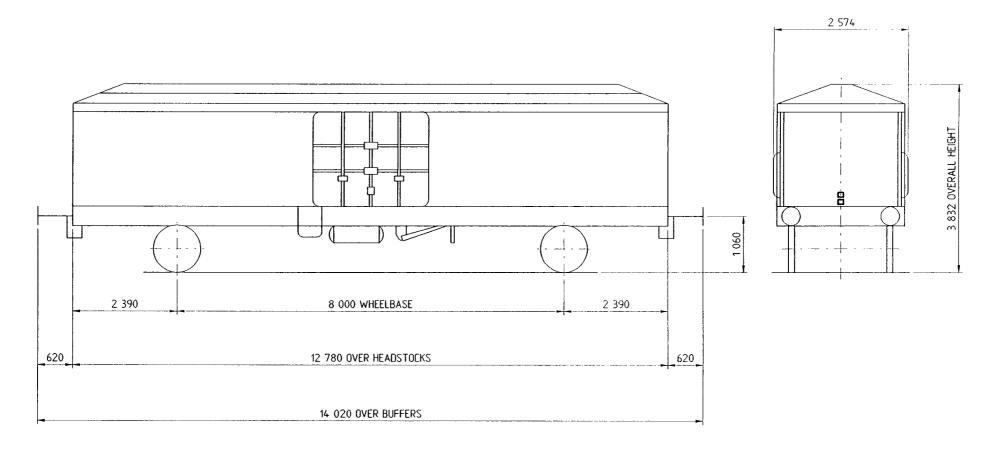
IIE 417



Railfreight Distribution International Ferry Vehicles (Foreign Administration) 40 t GLW 2 AXLE REFRIGERATOR VAN Vehicle Diagram Book No. 340

IIE 418

		Α	В	С	D		TOPS INFORMATION						
90	1	19 t	23 t	27 t		AARKND	OPERATING S	PEED	BRAKE FORCE DA	ATA	EXCESS	RA	DESIGN
S	1	19 t	23 t	23 t		CARKND	45 mile/h UP TO	40 tonne GLW	14 t FORCE UP TO	20+ CIM	LENGTH	(GLW)	SHEET
120						IIXL	mile/h ABOVE	40 tollile GLVV	24 t FORCE ABOVE	28 t GLW	12	6	-



TARE-	13 t
CAPACITY, WEIGHT-	27 t
CAPACITY, VOLUME-	51 m ³
FLOOR AREA-	26.5 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	56

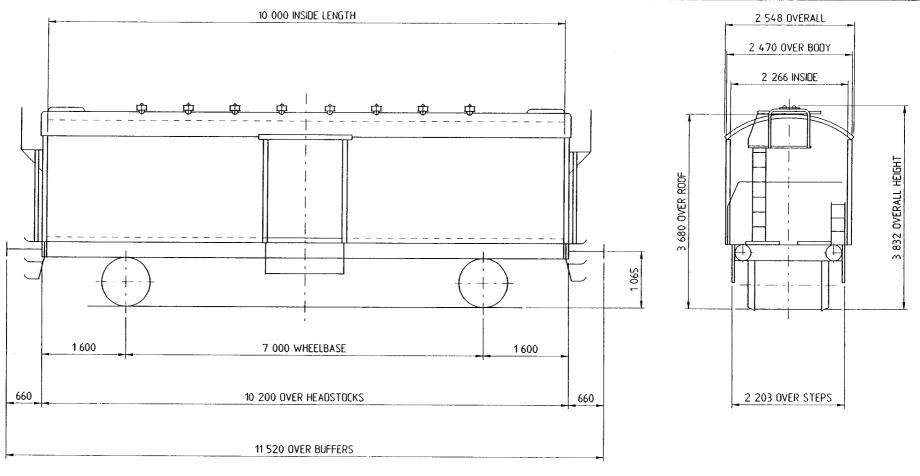
DUAL
DOUBLE LINK
INTERNATIONAL SCREW
-
Ø - P10 PROFILES
Ø -

TYPE-	lbfggps
WAGON No	06 83 8083 700-740
BUILDER-	SNIA VISCOSA

IME 420

35 t GLW INSULATED COVERED WAGON

		Α	В	С	D		TOPS INFORMATION						
90	1	16 t	20 t	20 t		AARKND	OPERATING S	PEED	BRAKE FORCE DATA		EXCESS	RA	DESIGN
S	_ 1	16 t	20 t	20 t		CARKND	60 mile/h UP TO	35 tonne GLW	12 t FORCE UP TO	244 0114	LENGTH	(GLW)	SHEET
120						I M B I	mile/h ABOVE	35 toline GLVV	20 t FORCE ABOVE	24 t GLW	-	4	-



TARE-	15.2 t
CAPACITY, WEIGHT	r - 20 t
CAPACITY, VOLUM	E- 40 m ³
FLOOR AREA-	22.66 m ²
MIN.CURVE-	
GEN.ARRGT.DRG.N	o 610-241854

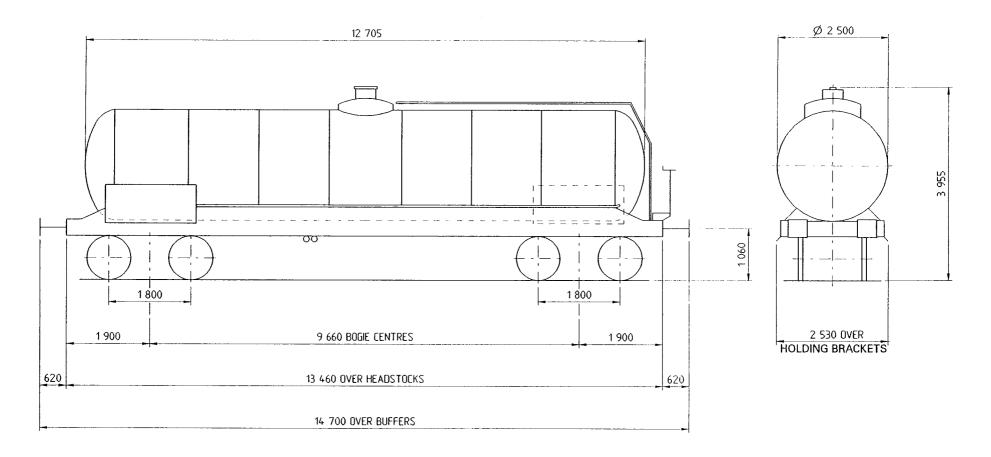
BRAKE-	AIR; VAC THRO' PIPE, LEVER HAND BRAKE
SUSPENSION-	_
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	-
WHEELS-	Ø -
JOURNALS-	Ø -

TYPE-	Hfhks
WAGON No	21 44 2197 001-008, 010, 011, 013-026
BUILDER-	GANZ es TARSA
	BHEV

80 t GLW BOGIE TANK

ICE 428

	Α	В	3	С	D		TOPS INFORMATION							
90	44.5	t 51.	5t 6	60.5t		AARKND		OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	44.5	t 51.	5t 6	60.5t		CARKND		60 mile/h UP TO	80 tonne GLW	12 t FORCE UP TO	40 + CLW	LENGTH	(GLW)	SHEET
120						I C B	D	mile/h ABOVE	oo tomie GEVV	36 t FORCE ABOVE	40 t GLW	3	6	-



TARE-	19.7 t
CAPACITY, WEIGH	T- 60.3 t
CAPACITY, VOLUM	1E - 60 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.	No 107467

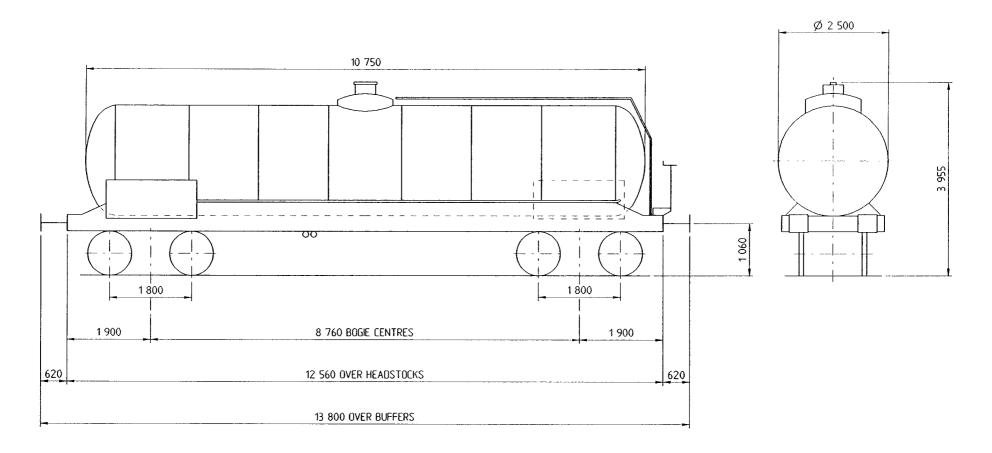
BRAKE-	AIR; VACUUM THRO' PIPE
SUSPENSION-	Y25 CS2 BOGIE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U5 HYDRAULIC 450 x 340 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zafs	
WAGON No.	- 33 87 7890 555-564	
BUILDER-	FAUVET-GIREL	

80 t GLW BOGIE TANK

ICE 429

	- 1	Α	В		С	D		TOPS INFORMATION						
90	4	5.3t	53.3	3t 6	1.3t		AARKND	OPERATING S	PEED	BRAKE FORCE DA	ATA	EXCESS	RA	DESIGN
S	4	5.3t	53.3	t 6	1.3t		CARKND	60 mile/h UP TO	80 tonne GLW	12 t FORCE UP TO		LENGTH	(GLW)	SHEET
120)						 I C B D	mile/h ABOVE	oo tonne GLVV	36 t FORCE ABOVE	43 t GLW	2	6	_]



TARE-	18.8 t	
CAPACITY, WEIGH	IT- 61.2 t	
CAPACITY, VOLUI	//E- 50.6 m ³	
FLOOR AREA-	-	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	No 107398	

BRAKE-	AIR; VACUUM THRO' PIPE
SUSPENSION-	Y25 CS2 BOGIE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U5 HYDRAULIC 450 x 340 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

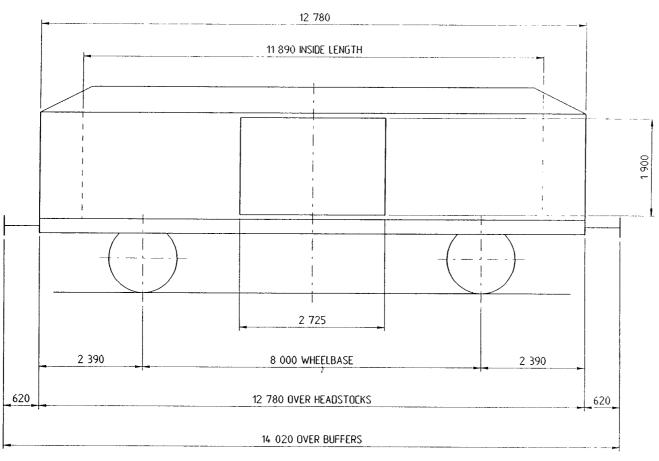
TYPE-	Tfikks
WAGON No	21 87 0798 999 33 87 7890 568, 570 - 574, 576, 578, 579, 581, 584
BUILDER-	FAUVET-GIREL
OWNER-	ERMEWA, GENEVA

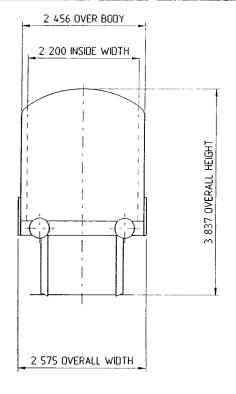


Railfreight Distribution International Ferry Vehicles (Foreign Administration) 40 t GLW REFRIGERATOR WAGON Vehicle Diagram Book No. 340

IIE 430

1		Α	В	С	1		TOPS INFORMATION							
90	18	3.2t	22.21	26.	2t	AARKND	OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN	
S	18	3.2t	22.2t	22.	2t	CARKND	60 mile/h UP TO	36 tonne GLW	AIR 7t FORCE UP TO	47. 0114	LENGTH	(GLW)	SHEET	
120						I I X L	50 mile/h ABOVE	30 toline GLVV	AIR 14t FORCE ABOVE	17 t GLW		6	-	



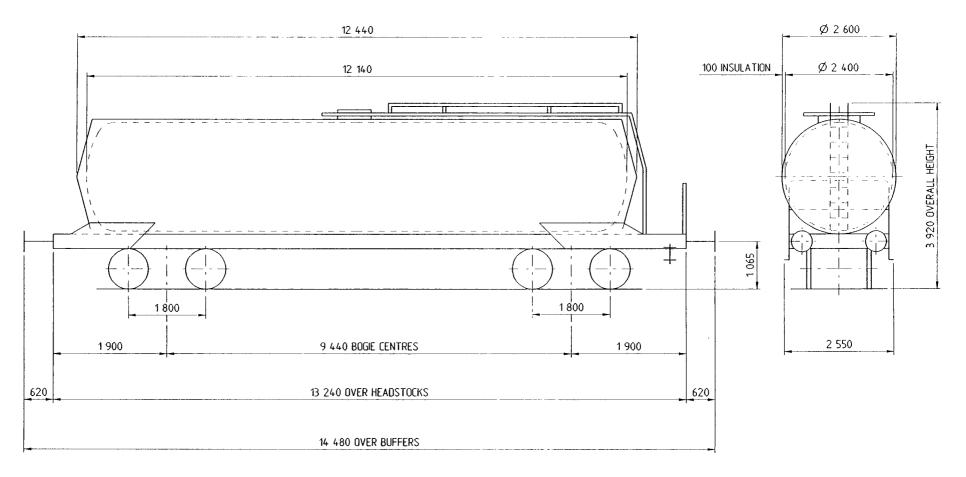


TARE-	13.8 t
CAPACITY, WEIGHT-	26.2 t
CAPACITY, VOLUME-	51.3 m ³
FLOOR AREA-	26.16 m ²
MIN.CURVE-	-
GEN.ARRGT.DRG.No.	. –

BRAKE-	AIR; VAC, LEVER & SCREW
SUSPENSION-	_
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	_
WHEELS-	Ø -
JOURNALS-	Ø -

lbfggps	
- 04 83 8083 001-004	
ITALIAN RAILWAYS	

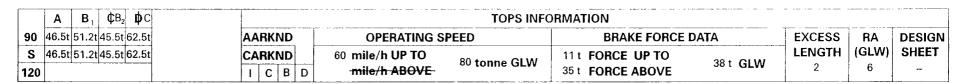
	Α	В	C D		TOPS INFORMATION									
90	44 t	52 t		AARKND	OPERATING	SPEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN			
S	44 t	52 t	60 t	CARKND	60 mile/h UP TO	72 tonne GLW	10 t FORCE UP TO	40 t GLW	LENGTH	(GLW)	SHEET			
120				I C B	D 50 mile/h ABOVE		36 t FORCE ABOVE	401 GEW	3	6				

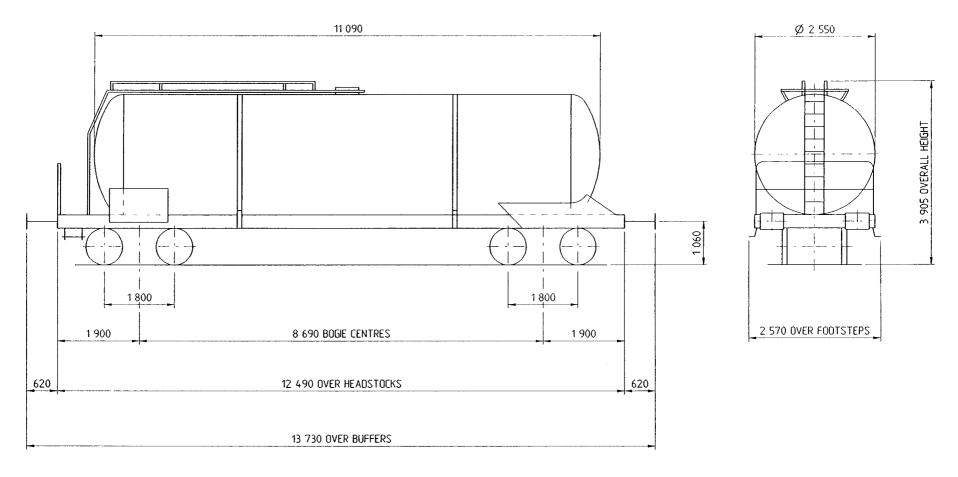


TARE-	19.68 t
CAPACITY, WEIGHT-	60.3 t
CAPACITY, VOLUME	· 52 m ³
FLOOR AREA-	
MIN.CURVE-	30 m
GEN.ARRGT.DRG.No.	-10242

BRAKE-	AIR; VAC THRO' PIPE
SUSPENSION-	Y 25 C BOGIES
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U5, 450 x 340 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

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



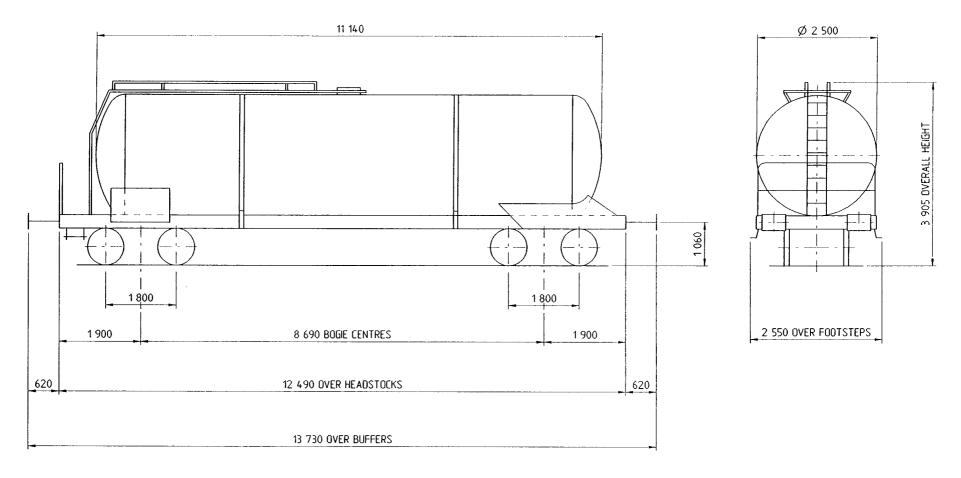


TARE-	17.5 t
CAPACITY, WEIGH	1 T- 62.5 t
CAPACITY, VOLU	ME- 54.5 m ³
FLOOR AREA-	
MIN.CURVE-	35 m
GEN.ARRGT.DRG.	No1.4.0.660

BRAKE-	AIR; VAC THRO' PIPE
SUSPENSION-	Y 25 CS2 BOGIES
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U5; 450 x 340 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Uafhs
WAGON No	33 87 7890 599-610
BUILDER-	C.E.M.F.
OWNER-	FERT & Co

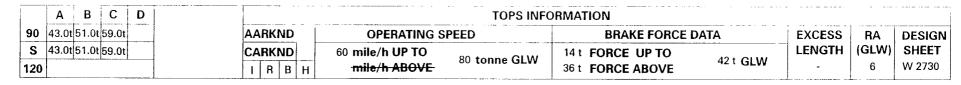
	1	Α	B ₁	¢в ₂	фс	 TOPS INFORMATION									
90	45	5.3t 5	0 t	53.3t	61.3t	AARKND		OPERATING SPEED		BRAKE FORCE D	EXCESS	RA	DESIGN		
S	45	5.3t 5	0 t	53.3t	61.3t	CARKND		60 mile/h UP TO	80 tonne GLW	11 t FORCE UP TO	20 + OLW	LENGTH	(GLW)	SHEET	
120						I C B	D	mile/h ABOVE	oo tomie Grav	35 t FORCE ABOVE	38 t GLW	2	6	-	

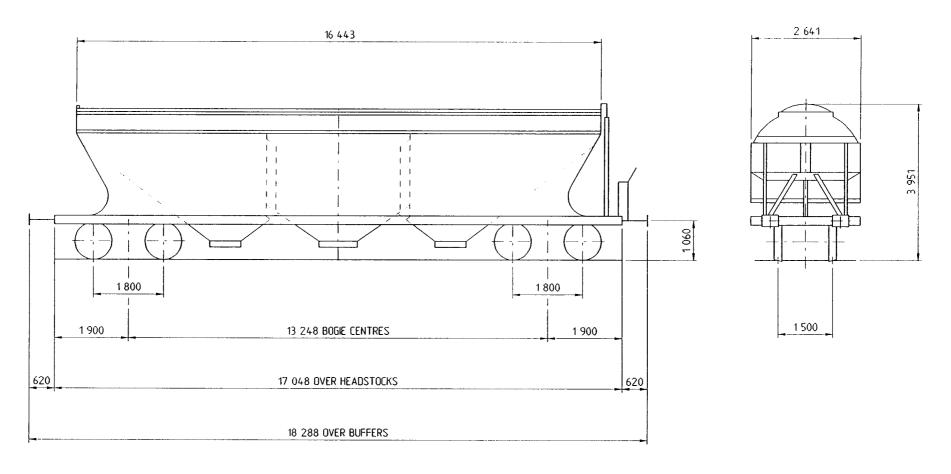


TARE-	18.7 t	
CAPACITY, WEIGH	IT- 61.3 t	
CAPACITY, VOLUM	/IE- 52.5 m ³	
FLOOR AREA-		
MIN.CURVE-	35 m	
GEN.ARRGT.DRG.I	No 1.4.0648	

BRAKE-	AIR; VAC THRO' PIPE
SUSPENSION-	Y 25 CS2 BOGIES
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U5; 450 x 340 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Uafhs
WAGON No	33 87 7890 611, 612
BUILDER-	C.F.M.F.





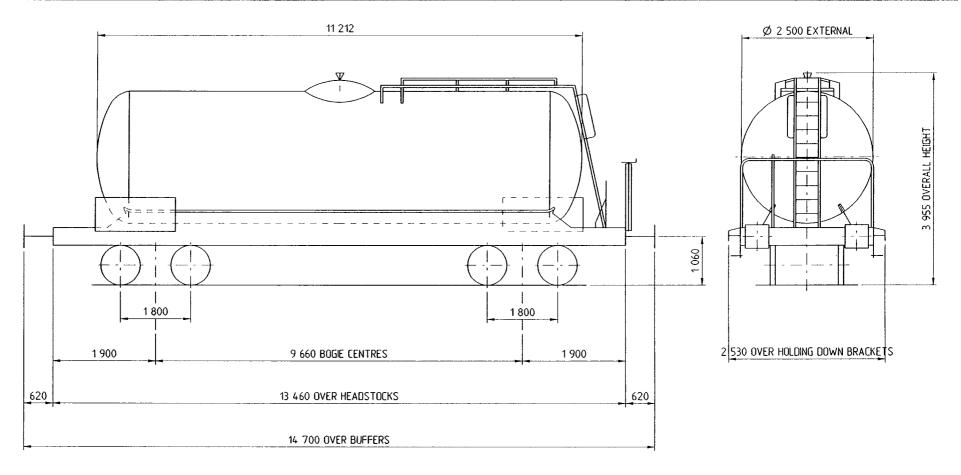
TARE-	21 t
CAPACITY, WEIGHT-	59 t
CAPACITY, VOLUME	· 95 m ³
FLOOR AREA-	_
MIN.CURVE-	_
GEN.ARRGT.DRG.No.	- 107280

BRAKE-	AIR, VAC THRO' PIPE; SCREW	
SUSPENSION-	_	
COUPLINGS-	INTERNATIONAL SCREW	
BUFFERS-	_	
WHEELS-	Ø -	
JOURNALS-	Ø -	

TYPE-	Uafs	Uafgpps(4)	Uafpps
WAGON No. 33 88 9282 000	. 33 87 -009, 33	3 88 9380 000 016, 037,	1, 33 87 9384 000-002 0, 004-006,009-013, 015 019, 020, 032-034, 036 039, 040, 044-047, 104, 108, 110
BUILDER-	FAUV	ET - GIREL	
OWNER-	S.N.C	.F.	

ICE 446

	Α	В	С	D		TOPS INFORMATION						
90	45.6	t 53.6	61.6t		AARKND	OPERATING S	SPEED	BRAKE FORCE D	DATA	EXCESS	RA	DESIGN
S	45.6	t 53.61	61.6t		CARKND	60 mile/h UP TO	80 tonne GLW	12 t FORCE UP TO	43 t GLW	LENGTH	(GLW)	SHEET
120					I C B	mile/h ABOVE	oo tomie GLVV	36 t FORCE ABOVE	45 C GLVV	3	5	

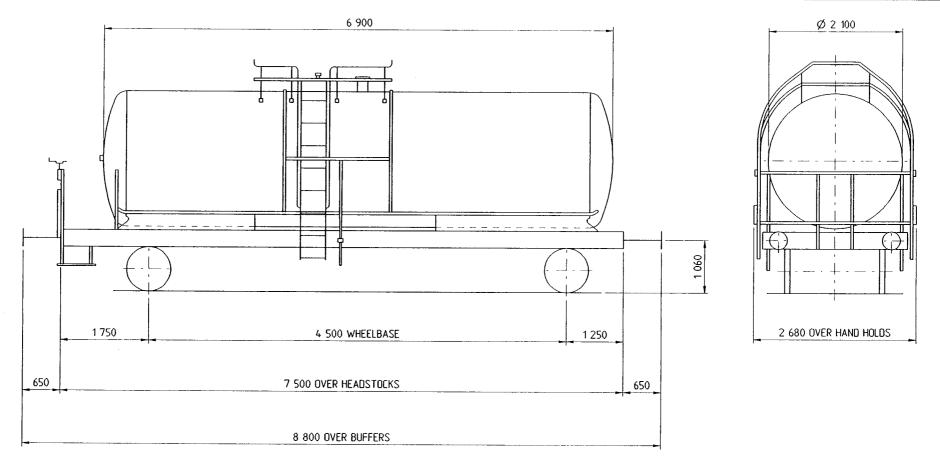


TARE-	18.6 t
CAPACITY, WEIGHT-	61.5 t
CAPACITY, VOLUME-	· 53 m³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	- 107699

BRAKE-	AIR, VACUUM THRO' PIPE
SUSPENSION-	Y 25 CS2 BOGIE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U5 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

	Α	В	С	D			TOPS INFORMATION						
90	20.9t	24.9	t 28.9	t	A	ARKND	OPERATING SI	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	20.9t	24.9	t 24.9	t	c	ARKND	60 mile/h UP TO	36 tonne GLW	8t FORCE UP TO	25 4 21344	LENGTH	(GLW)	SHEET
120					1	B B B	50 mile/h ABOVE	So tollile GEVV	21 t FORCE ABOVE	25 t GLW	4	6	-



TARE-	11.1 t	
CAPACITY, WEIGH	r - 28.9 t	
CAPACITY, VOLUM	I E- 22 m ³	
FLOOR AREA-	_	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.N	lo W1882	

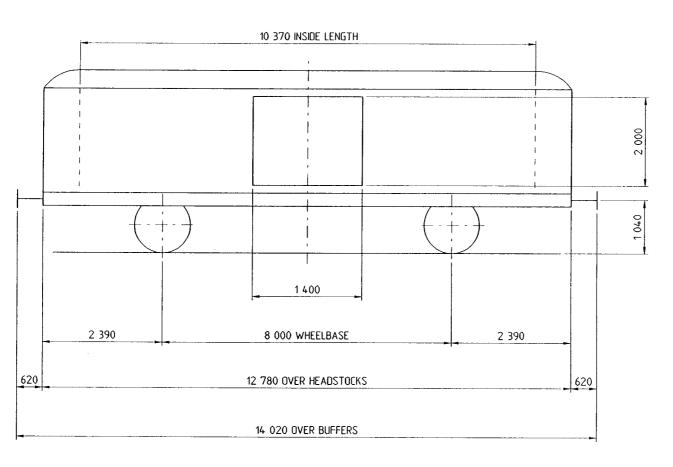
BRAKE-	AIR; VACUUM THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø370 HD
WHEELS-	Ø 940
JOURNALS-	Ø 130

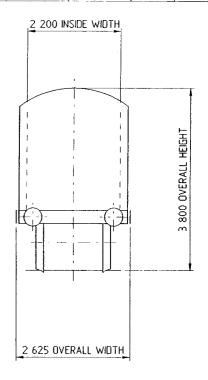
TYPE-	Zcfs
WAGON No	23 80 7391 047, 048
BUILDER-	KAMINSKI HAMELN

Railfreight Distribution International Ferry Vehicles (Foreign Administration) 40 t GLW REFRIGERATOR WAGON Vehicle Diagram Book No. 340

IIE 450

	Α	В	С	Ð		TOPS INFORMATION						
90	14.5	t 18.51	22.5t		AARKND	OPERATING SI	PEED	BRAKE FORCI	DATA	EXCESS	RA	DESIGN
S	14.5	t 18.5t	18.5t		CARKND	60 mile/h UP TO	36 tonne GLW	FORCE UP TO	a+ (b x tonnes)	LENGTH	(GLW)	SHEET
120		14.5t		SS	I I B L	50 mile/h ABOVE	30 tonne GLVV	FORCE ABOVE	GLW 1.00 + (0.50 x t)		6	-





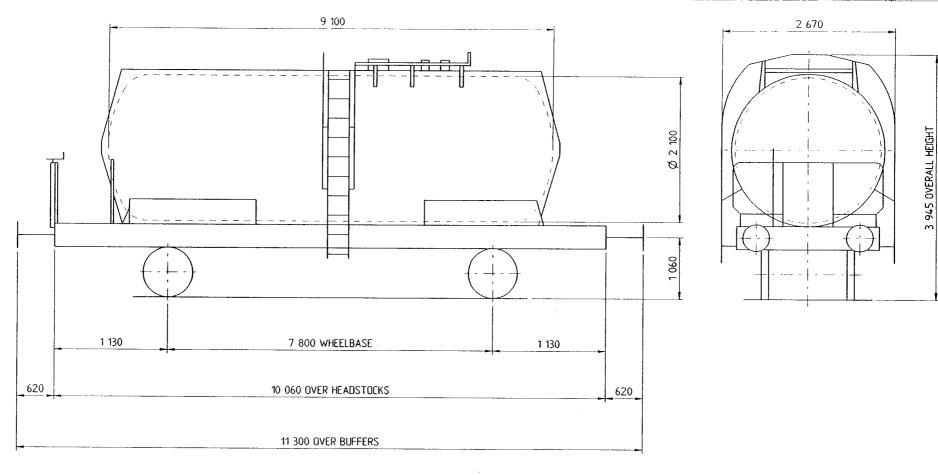
TARE-	17.5 t
CAPACITY, WEIGHT-	22.5 t
CAPACITY, VOLUME-	42.3 m ³
FLOOR AREA-	22.8 m ²
MIN.CURVE-	-
GEN.ARRGT.DRG.No	3651

BRAKE-	AIR; VAC THRO' PIPE, HAND SCREW
SUSPENSION-	_
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	_
WHEELS-	Ø 1000
JOURNALS-	Ø -

TYPE-	Ibefps
WAGON No	03 83 8088 997
BUILDER-	A.GALLINARI
OWNER-	INTERFRIGO

Railfreight Distribution International Ferry Vehicles (Foreign Administration) Vehicle Diagram Book No. 340 40 t GLW 2 AXLE TANK

		Α	В	С	D		TOPS INFORMATION						
90	18	8.6t	22.6t	26.6t		AARKND	OPERATING S	SPEED	BRAKE FORCE I	DATA	EXCESS	RA	DESIGN
S	18	3.6t	22.6t	26.6t		CARKND	60 mile/h UP TO	40 tonne GLW	9t FORCE UP TO	25 - 2114	LENGTH	(GLW)	SHEET
120)					I B B E	mile/h ABOVE	40 tollile GLVV	21 t FORCE ABOVE	25 t GLW	8	6	-



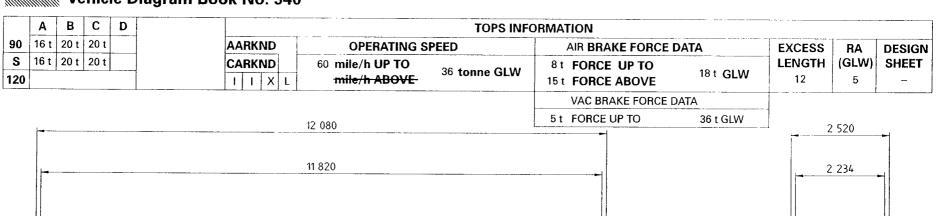
13.4 t
26.6 t
30 m ³
-
60 m

BRAKE-	AIR, VACUUM THRO' PIPE
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER Ø 370
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zcefs	
WAGON No	23 80 7398 027-036	
BUILDER-	LINKE-HOFMANN-BUSCH	



Railfreight Distribution International Ferry Vehicles (Foreign Administration) 36 t GLW 2 AXLE REFRIGERATOR VAN IIE 452 Vehicle Diagram Book No. 340



875

2 700

8 000 WHEELBASE

12 780 OVER HEADSTOCKS

		14 020 OVER BUFFERS
•		
TARE-	15.95 t	BRAKE-
CAPACITY, WEIGH	T- 20 t	SUSPENSIO
CAPACITY, VOLUN	1E- 46 m ³	COUPLINGS
FLOOR AREA-	25 m ²	BUFFERS-
MIN.CURVE-	60 m	WHEELS-
GEN.ARRGT.DRG.N	lo 2485	JOURNALS-

2 390

BRAKE-	DUAL
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	Ø 470 HD
WHEELS-	Ø 1000
JOURNALS-	Ø 130

TYPE-	Ibflps	
WAGON No	- 04 83 8091 000	
BUILDER-	SNIA VISCOSA	

1 060

620

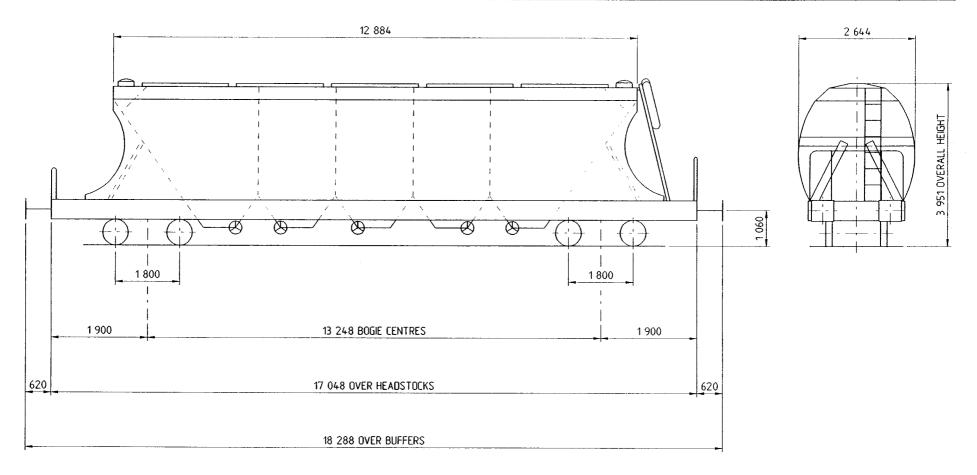
2 390

16-03-93 ISSUE 2

3 785 OVERALL HEIGHT

620

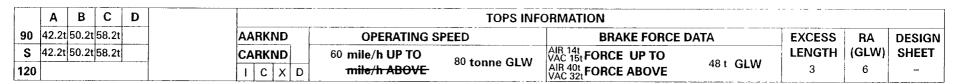
	Α	В	С	D		TOPS INFORMATION						
90	40.5	t 48.5		it	AARKND	OPERATING S	PEED	BRAKE FORCE D)ATA	EXCESS	RA	DESIGN
S	40.5	t 48.5	t 48.5	ōt	CARKND	60 mile/h UP TO	72 tonne GLW	15 t FORCE UP TO	44 + CLW	LENGTH	(GLW)	SHEET
120					I R B H	50 mile/h ABOVE	72 toline GLVV	37 t FORCE ABOVE	44 t GLW	9	6	-

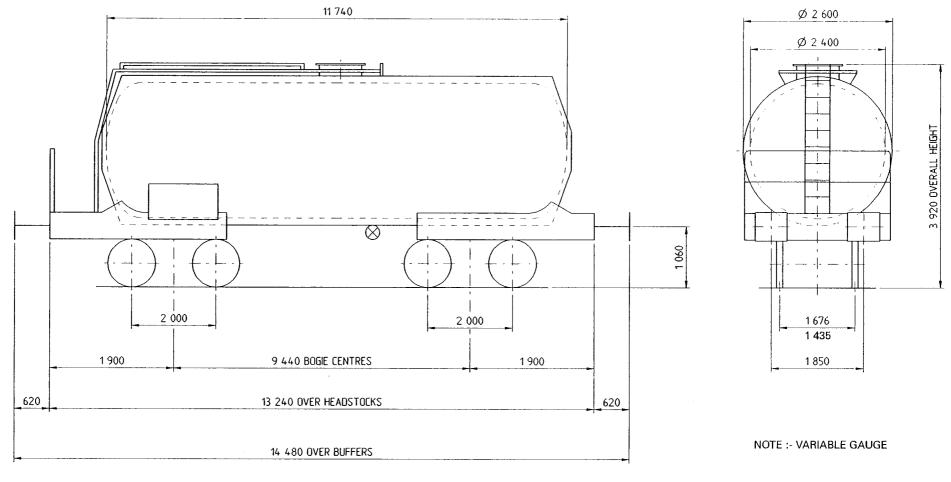


TARE-	23.5 t
CAPACITY, WEIGH	IT- 56.5 t
CAPACITY, VOLUM	VIE- 80 m³
FLOOR AREA-	-
MIN.CURVE-	35 m
GEN.ARRGT.DRG.I	No108420

BRAKE-	AIR; VACUUM THRO' PIPE
SUSPENSION-	Y25 CS2
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U5 HYDRAULIC 450 x 340 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Uafoos
WAGON No	33 87 9382 000-021
BUILDER-	FAUVET-GIREL



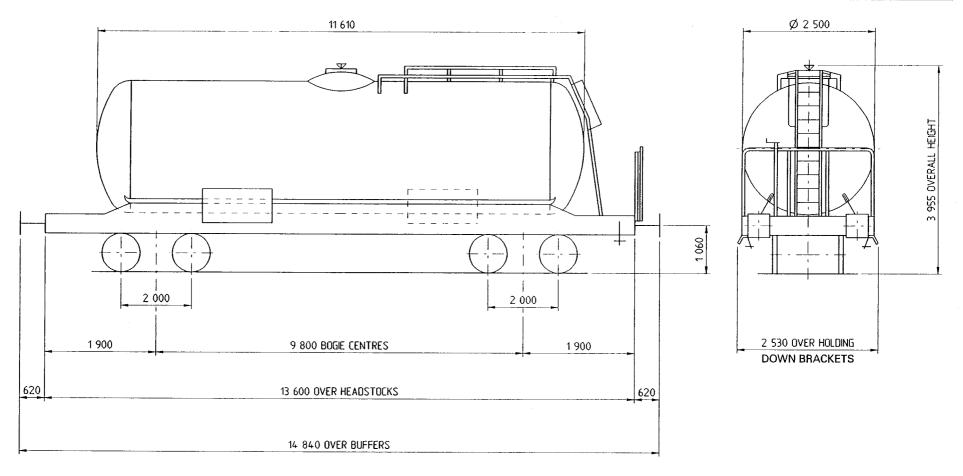


TARE-	21.8 t
CAPACITY, WEIGHT-	58.2 t
CAPACITY, VOLUME-	51 m ³
FLOOR AREA-	-
MIN.CURVE-	35 m
GEN.ARRGT.DRG.No	1.4.0.666

BRAKE-	DUAL
SUSPENSION-	Y 21 Cse BOGIE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	U4 HYDRAULIC 580 x 400 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zafs
WAGON No	34 87 7890 585-588
BUILDER-	C.F.M.F.
OWNER- TRAI	NS-TIRAT-SETE / J.IMBERT-MONTPELIER

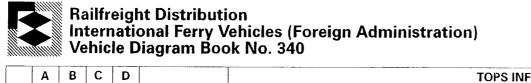
	Α	١,	В	С	D		TOPS INFORMATION						
90	41.	7t 4	49.7t	57.2t		AARKND	ARKND OPERATING SPEED		BRAKE FORCE DATA		EXCESS	RA	DESIGN
S	41.	.7t 4	49.7t	57.2t		CARKND	60 mile/h UP TO	80 tonne GLW	AIR 14t FORCE UP TO	40 - 01 144	LENGTH	(GLW)	SHEET
120)					I C X D	mile/h ABOVE	oo tollile GLVV	AIR 36t FORCE ABOVE	40 t GLW	4	6	-

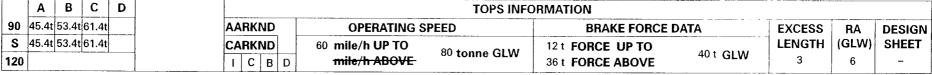


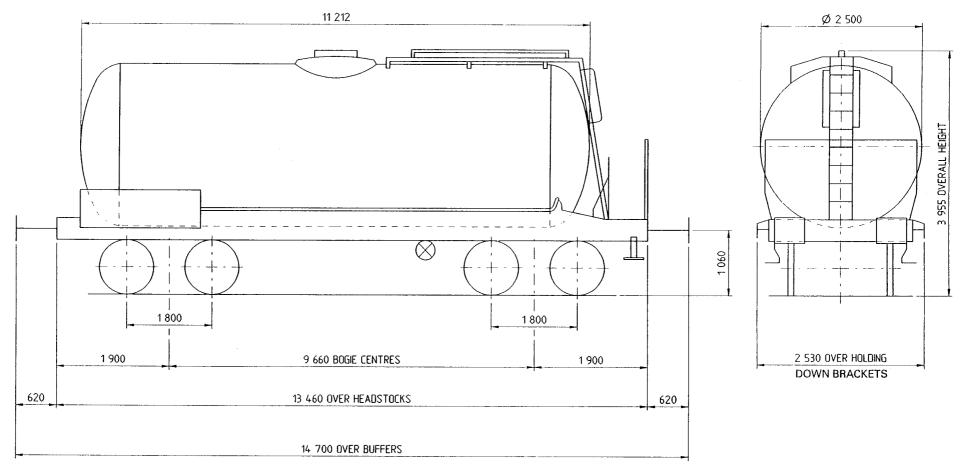
TARE-	22.8 t
CAPACITY, WEIGHT-	57.2 t
CAPACITY, VOLUME-	54.5 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	108460

BRAKE-	DUAL
SUSPENSION-	Y 21 CSe
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	TYPE U4A. 580 x 400 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

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







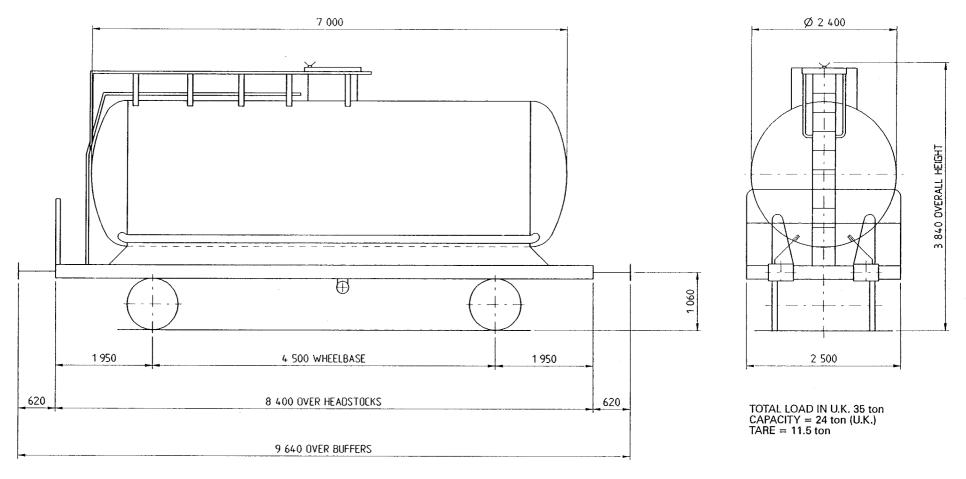
18.6 t	
T- 61.4 t	
1E- 53 m ³	
60 m	
	T- 61.4 t 1E- 53 m ³

BRAKE-	AIR, VAC THRO' PIPE			
SUSPENSION-	Y 25 CS 2 BOGIE			
COUPLINGS-	INTERNATIONAL SCREW			
BUFFERS-	HYDRAULIC 450 x 340 HD			
WHEELS-	Ø 920			
JOURNALS-	Ø 130			

TYPE-	Zafs	
WAGON No) 33 87 7890 500-514	
BUILDER-	FAUVET-GIREL	



		Α	В	С	D		TOPS INFORMATION						
9	0 2	20.5t	24.5t	28.5t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
	3 2	20.5t	24.5t	24.5t		CARKND	60 mile/h UP TO	36 tonne GLW	6t FORCE UP TO	22 . 0114	LENGTH	(GLW)	SHEET
- 1	20					I B B B	50 mile/h ABOVE	30 tollile GLVV	18 t FORCE ABOVE	22 t GLW	6	6	-

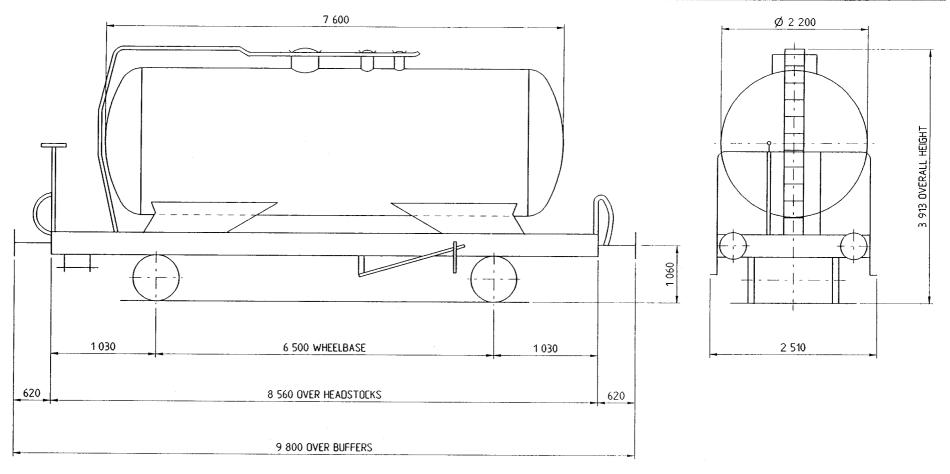


TARE-	11.5 t
CAPACITY, WEIGHT-	28.5 t
CAPACITY, VOLUME-	30 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	· 10187C

BRAKE-	AIR & VAC THRO' PIPE		
SUSPENSION-	DOUBLE LINK		
COUPLINGS-	INTERNATIONAL SCREW		
BUFFERS-	HYDRAULIC		
WHEELS-	Ø 960		
JOURNALS-	Ø -		

TYPE-	Zfs
WAGON No	23 87 7390 515, 516
BUILDER-	ATELIERS d'OCCITANIE
OWNER-	TRANSCITERNE

	Α	В	С	D		TOPS INFORMATION						
90	20 t	24 t	28 t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	20 t	24 t	28 t		CARKND	60 mile/h UP TO	40 tonne GLW	8t FORCE UP TO	25 + 01144	LENGTH	(GLW)	SHEET
120					I B B C	mile/h ABOVE	40 toline GLVV	21 t FORCE ABOVE	25 t GLW	6	6	-



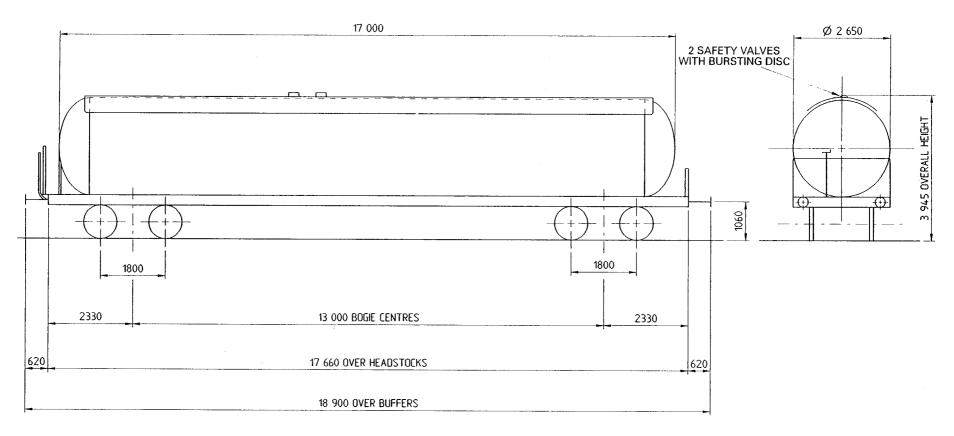
TARE-	12 t
CAPACITY, WEIGHT-	28 t
CAPACITY, VOLUME	- 27.7 m ³
FLOOR AREA-	_
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No.	-K 421.01.00

BRAKE-	AIR; VAC THRO' PIPE		
SUSPENSION-	DOUBLE LINK		
COUPLINGS-	INTERNATIONAL SCREW		
BUFFERS-	RING FEDER Ø370 HD		
WHEELS-	Ø 920		
JOURNALS-	Ø 130		

TYPE-	Zcefs					
WAGON No	23 80 7398 037-046					
BUILDER-	GRAFF					

80 t GLW BOGIE TANK

	Α	В		С	D		TOPS INFORMATION						
90	33.9	t 41.9	9t 4	9.9t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	33.9	t 41.	9t 4	9.9t		CARKND	60 mile/h UP TO	80 tonne GLW	22 t FORCE UP TO	54 . 0114	LENGTH	(GLW)	SHEET
120	<u> </u>					 I C B D	mile/h ABOVE	oo tollile GLVV	43 t FORCE ABOVE	51 t GLW	10	6	W 2886



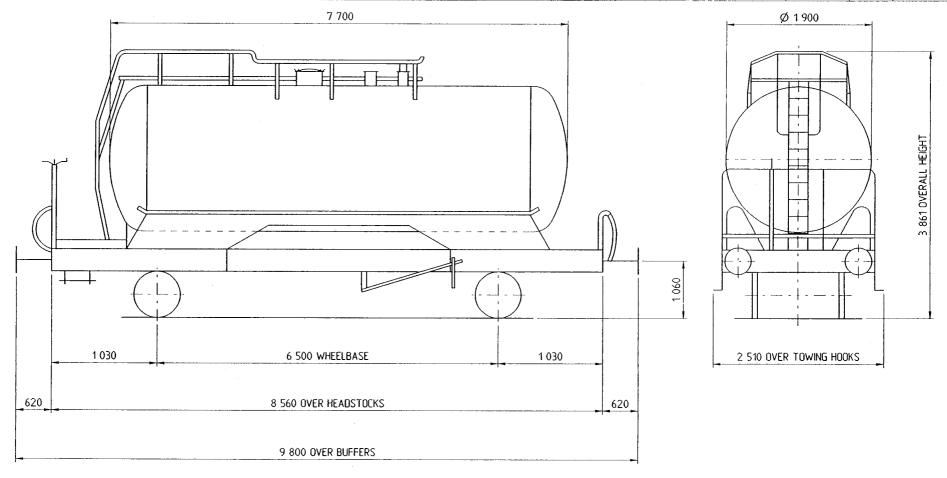
TARE-	30.1 t
CAPACITY, WEIGHT-	49.9 t
CAPACITY, VOLUME	- 90 m ³
FLOOR AREA-	36 m ²
MIN.CURVE-	***
GEN.ARRGT.DRG.No	0-335.010034

BRAKE-	AIR; VAC THRO' PIPE
SUSPENSION-	TALBOT BOGIE
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RINGFEDER
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zafgkks ; Zacfs
WAGON No	33 80 7892 000-010, 013, 036 33 80 7894 011, 019
BUILDER-	WAGGON UNION
OWNER-	V.T.G.

Railfreight Distribution International Ferry Vehicles (Foreign Administration) Vehicle Diagram Book No. 340 40 t GLW 2 AXLE TANK

	Α	В	С	D		TOPS INFORMATION						
90	20.5	t 24.5	t 28.51		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	20.5	t 24.5	28.5		CARKND	60 mile/h UP TO	40 tonne GLW	8t FORCE UP TO	25 + 0114	LENGTH	(GLW)	SHEET
120					I B B B	mile/h ABOVE		21 t FORCE ABOVE	25 t GLW	6	6	-

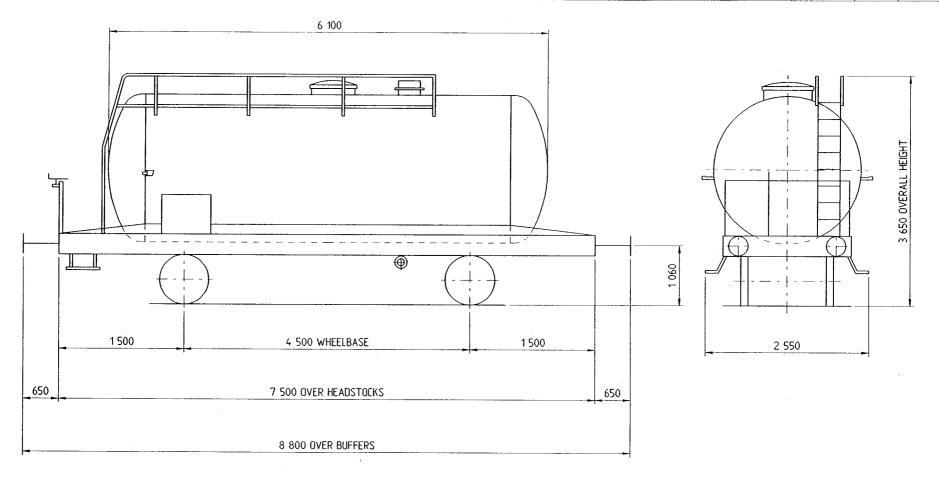


TARE-	11.5 t
CAPACITY, WEIGI	HT- 28.5 t
CAPACITY, VOLU	ME- 20 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.	NoK.426.01-00

BRAKE-	AIR & VAC THRO' PIPE; PLATFORM SCREW & HAND LEVER
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	RING FEDER Ø 370 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zcfs
WAGON No	23 80 7391 053-056
·	
DI III DED	ODAFF
BUILDER-	GRAFF

	Α	В	С	D		TOPS INFORMATION						
90	21.9	t 25.9	t 29.	9t	AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S					CARKND	45 mile/h UP TO	40 tonne GLW	7t FORCE UP TO	20 + 0114	LENGTH	(GLW)	SHEET
120					I B B C	mile/h ABOVE	40 tollile GLVV	17 t FORCE ABOVE	20 t GLW	4	6	-



TARE-	10.1 t
CAPACITY, WEIGHT-	29.9 t
CAPACITY, VOLUME-	24 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	677

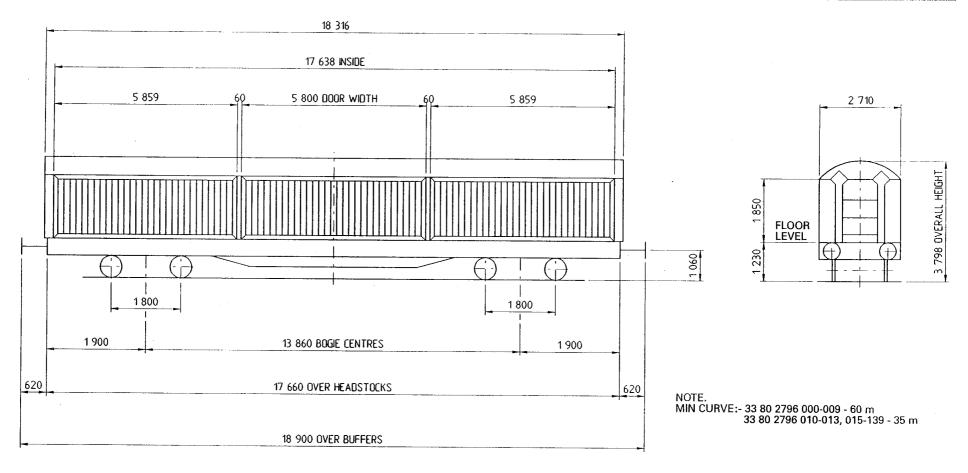
BRAKE-	AIR & VAC THRO' PIPE; PLATFORM SCREW & SIDE LEVER
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zf
WAGON No	23 83 7190 008-031
BUILDER-	JOIGNY
OWNER-	ETRA

80 t GLW BOGIE VAN (MARK 1)

IWE 471

	Α	В	С	D		TOPS INFORMATION						
90	38 t	46 t	54 t		AARKND	OPERATING S	SPEED	BRAKE FORCE I	DATA	EXCESS	RA	DESIGN
S	38 t	46 t	54 t		CARKND	60 mile/h UP TO	80 tonne GLW	18 t FORCE UP TO	40 4 01114	LENGTH	(GLW)	SHEET
120	<u> </u>				I W B B	mile/h ABOVE		43 t FORCE ABOVE	48 t GLW	10	6	-



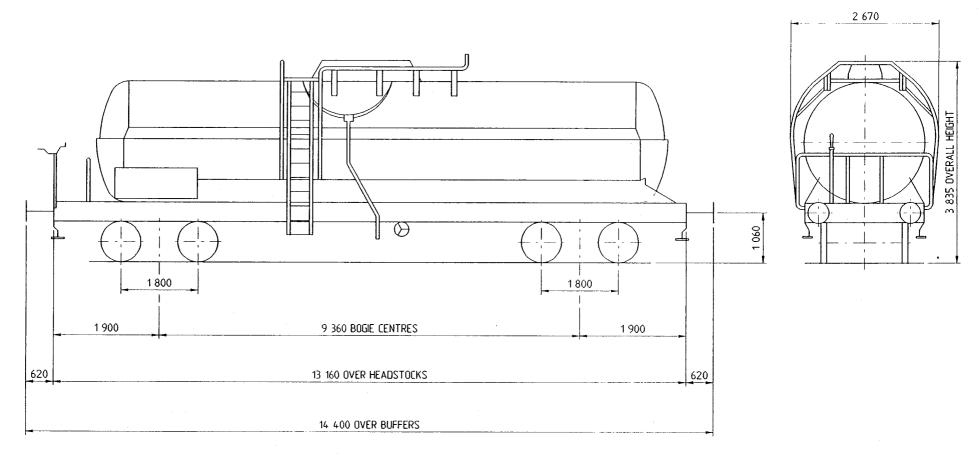
TARE-	24.4 t
CAPACITY, WEIGHT-	55.6 t
CAPACITY, VOLUME	- 90 m ³
FLOOR AREA-	44 m ²
MIN.CURVE-	SEE NOTE
GEN.ARRGT.DRG.No	913 535,0.01

AIR & VAC THRO' PIPE; SIDE SCREW
LHB 74
INTERNATIONAL SCREW
HYDRAULIC Ø480
Ø 920
Ø 130

TYPE-	Hafis					
WAGON No	33 80 2796 000 - 013, 015 - 090, 092 - 139,					
BUILDER-	LINKE-HOFMANN-BUSCH					
OWNER-	V.T.G.					

80 t GLW BOGIE TANK

	Α		В	С	D			TOPS INFORMATION						
90	39.4	1	7.4t	55.4t	1		AARKND	OPERATING S	PEED	BRAKE FORCE DA	TA	EXCESS	RA	DESIGN
S	39.4	4t 47	7.4t	55.4t]	CARKND	60 mile/h UP TO	80 tonne GLW	17 t FORCE UP TO	F1+ O114	LENGTH	(GLW)	SHEET
120							I C B D	mile/h ABOVE	oo toline GLvv	43 t FORCE ABOVE	51 t GLW	3	6	-



TARE-	24.6 t
CAPACITY, WEIGHT-	55.4 t
CAPACITY, VOLUME-	34 m ³
FLOOR AREA-	-
MIN.CURVE-	35 m
GEN.ARRGT.DRG.No.	- 0.52287.0.01

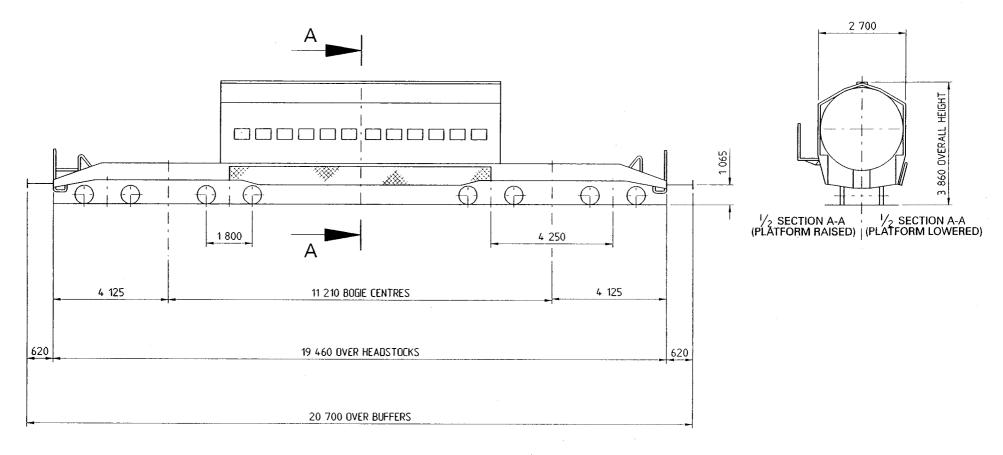
AIR & VAC THRO' PIPE; PLATFORM & SIDE SCREW
D B BOGIE
INTERNATIONAL SCREW
-
Ø 920
Ø 130

TYPE-	Zacefs
WAGON No	33 80 7995 000-002
BUILDER-	LINKE-HOFMANN-BUSCH
OWNER-	VTG

Railfreight Distribution International Ferry Vehicles (Foreign Administration) 152.5 t GLW ATOMIC FLASK WAGON IQE 475 Vehicle Diagram Book No. 340

ı		Α	B 1	↓ ¢B2	ID C2	C3 C4		TOPS INFORMATION						
90) [52.8t	57 t	81.5	85.9t	97.5 t	AARKND	OPERATING	SPEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S		52.8t	57 t	81.5t	85.9t	97.5 t	CARKND	60 mile/h UP TO	152.5 tonne GLW	30 t FORCE UP TO		LENGTH	(GLW)	SHEET
12	0						I Q B C	mile/h ABOVE	152.5 tonne GLVV	72 t FORCE ABOVE	80 t GLW	13	9	-

FLASKS OF 80t, 97t & 105t MAY BE CARRIED



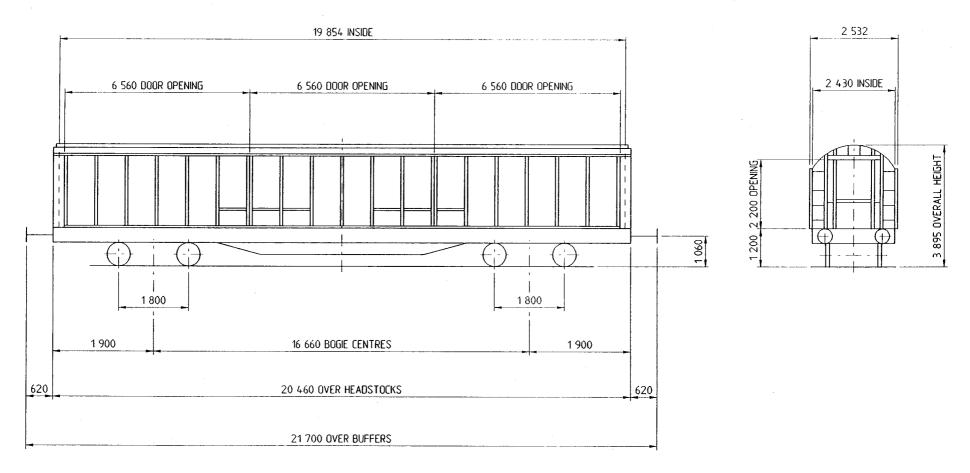
TARE-	47.5 t
CAPACITY, WEIGHT-	105 t
CAPACITY, VOLUME	_
FLOOR AREA-	_
MIN.CURVE-	50 m UNCOUPLED
GEN.ARRGT.DRG.No.	-101714

BRAKE-AIR, VAC	THRO' PIPE; PLATFORM & SIDE SCREW
SUSPENSION-	Y11M
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 920
JOURNALS-	Ø 130

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

IWE 476

	Α	4	В	С	D			TOPS INFO	RMATION				
90	37.	7.7t ∠	45.7t	53.7t		AARKND	OPERATING SI	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	37.	.7t 4	45.7t	53.7t		CARKND	60 mile/h UP TO	80 tonne GLW	19 t FORCE UP TO	524 OLW	LENGTH	(GLW)	SHEET
120						I W B B	mile/h ABOVE	oo tollie GLW	44 t FORCE ABOVE	52 t GLW	14	6	-

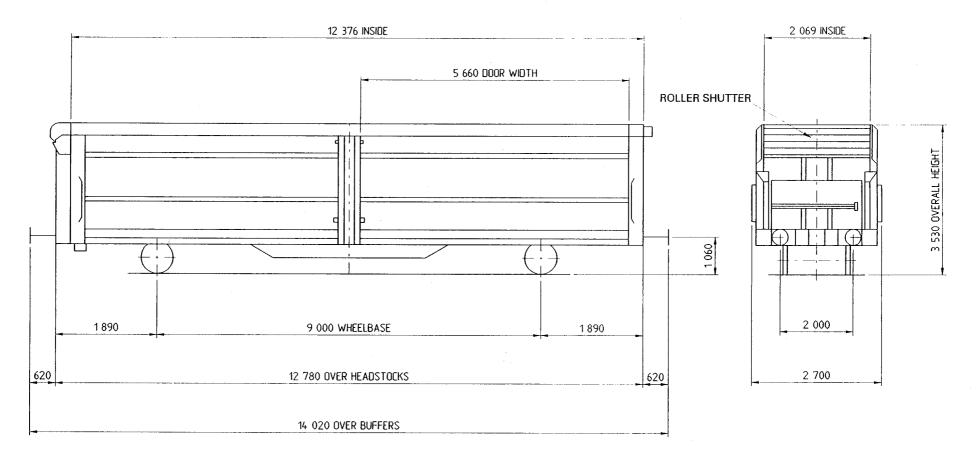


TARE-	26.3 t
CAPACITY, WEIGHT-	53.7 t
CAPACITY, VOLUME-	114 m ³
FLOOR AREA-	48 m ²
MIN.CURVE-	35 m
GEN.ARRGT.DRG.No.	- A2089 011

BRAKE-	AIR & VAC THRO' PIPE; SIDE SCREW
SUSPENSION-	DB BOGIE (TALBOT)
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø 450 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

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

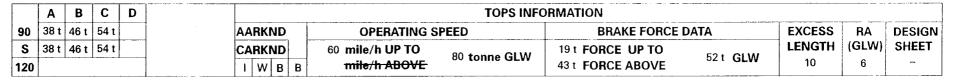
		Α	В	С	D				TOPS INFO	RMATION				
90	17	7.5t	21.5	25.51		А	AARKND	OPERATING S	PEED	BRAKE FORCE	DATA	EXCESS	RA	DESIGN
S	17	7.5t	21.51	25.51		C	CARKND	60 mile/h UP TO	40 tonne GLW	FORCE UP TO	a+(b x tonnes)	LENGTH	(GLW)	SHEET
120							I L B L	mile/h ABOVE	40 LOINE GLVV	FORCE ABOVE	- GLW -1.34 +(0.48 x t)	12	6	-

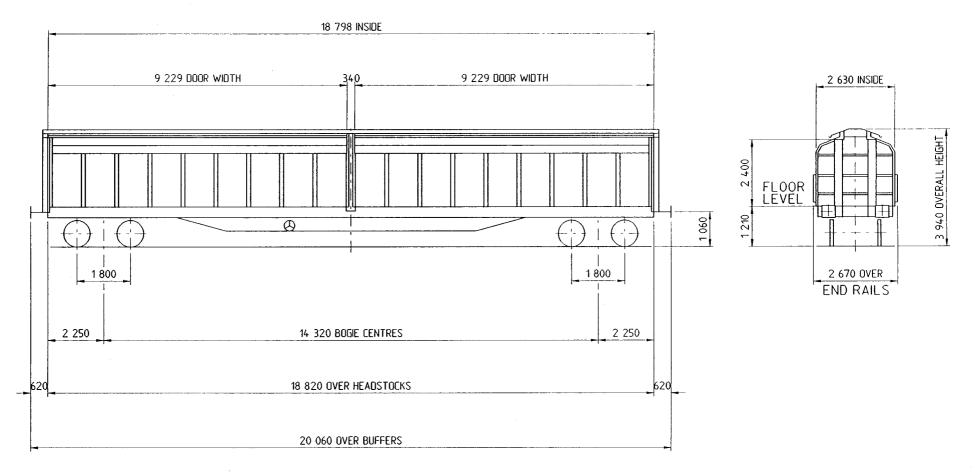


TARE-	14.5 t
CAPACITY, WEIGH	T- 25.5 t
CAPACITY, VOLUM	IE- 61 m ³
FLOOR AREA-	27 m ²
MIN.CURVE-	60 m
GEN.ARRGT.DRG.N	lo 895-0-002M

BRAKE-	AIR & VAC THRO' PIPE; SIDE SCREW
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Tbfis
WAGON No	21 88 5799 000, 001, 003-010, 012-030, 032-045, 047-049
	21 88 0799 000, 001, 032, 042
BUILDER-	-
OWNER-	SNCB





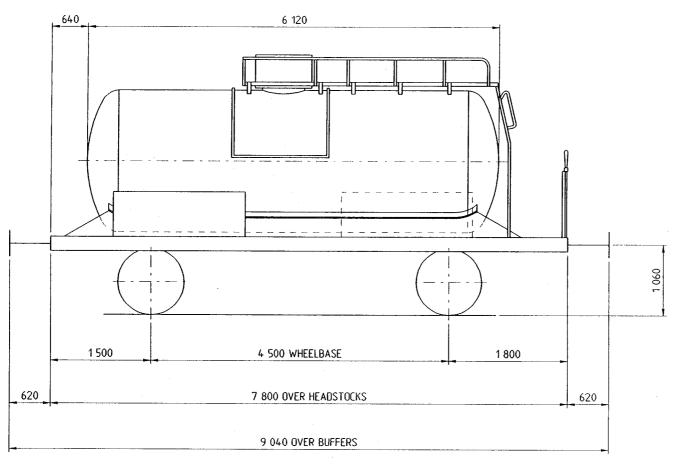
TARE-	26 t
CAPACITY, WEIGH	IT- 54 t
CAPACITY, VOLUI	ME- 118 m ³
FLOOR AREA-	.47 m²
MIN.CURVE-	35 m
GEN.ARRGT.DRG.	No9 13543 0 01

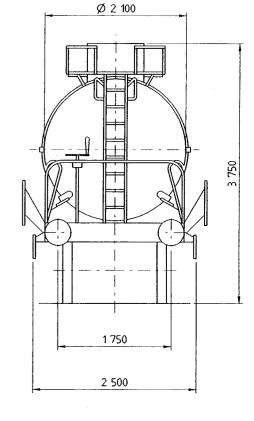
BRAKE-	AIR & VAC THRO' PIPE; SIDE SCREW
SUSPENSION-	DB BOGIE (TALBOT)
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Habfis
WAGON No	33 80 2797 000-031,033-138, 140-170, 172-211
BUILDER-	LINKE-HOFMANN-BUSCH

40 t GLW 2 AXLE TANK

	Α	В	С	D				TOPS INFO	RMATION		· · · · · · · · · · · · · · · · · · ·		
90	22.5	t 26.5	t 30.5t		AA	RKND	OPERATING SI	PEED	BRAKE FORCE DA	ATA	EXCESS	RA	DESIGN
S	22.5	t 26.5	t 26.5t		CA	RKND	60 mile/h UP TO	40 tonne GLW	5t FORCE UP TO	21 + 01 111	LENGTH	(GLW)	SHEET
120					1	B B C	mile/h ABOVE	40 tonne Grvy	18 t FORCE ABOVE	21 t GLW	-	6	_





TARE-	9.5 t
CAPACITY, WEIGHT-	30.5 t
CAPACITY, VOLUME-	20 m ³
FLOOR AREA-	
MIN.CURVE-	
GEN.ARRGT.DRG.No	2.2.0.825

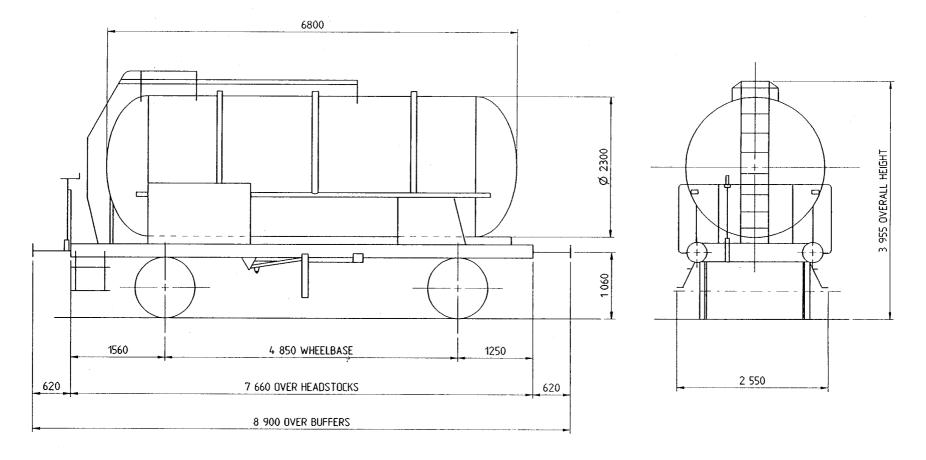
AIR; VAC THRO' PIPE, SCREW

INTERNATIONAL SCREW
_
Ø 1 000
Ø -

TYPE-	Ufhs
WAGON No	23 87 7391 000
NIIII DED	0545
BUILDER-	C.F.M.F.
OWNER-	S.N.C.F.

40 t GLW 2 AXLE TANK

	Α	В	С	D		TOPS INFORMATION						
90	20 t	24 t	28 t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	20 t	24 t	28 t		CARKND	60 mile/h UP TO	30 tonne GLW	14 t FORCE UP TO	20 + 21 111	LENGTH	(GLW)	SHEET
120					I B B C	50 mile/h ABOVE	30 tollile GLVV	27 t FORCE ABOVE	28 t GLW	4	6	W 1042



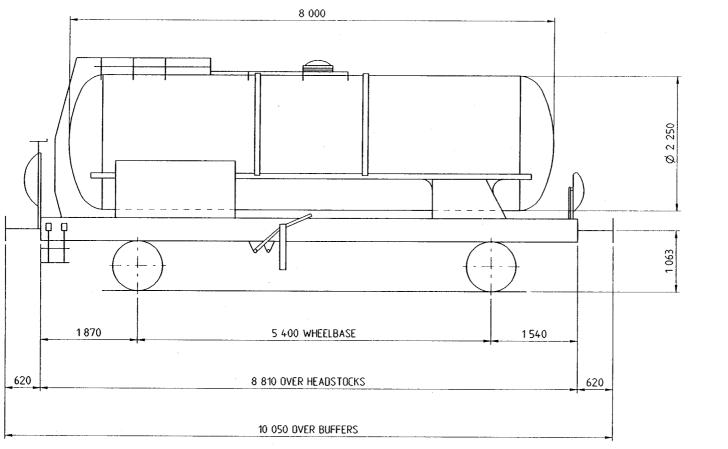
TARE-	12 t	
CAPACITY, WEIGI	HT- 28 t	
CAPACITY, VOLU	ME- 27 m ³	
FLOOR AREA-	-	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.	No 7-115443	

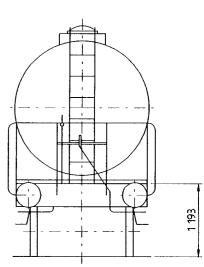
BRAKE- AIR &	VAC THRO' PIPE; PLATFORM SCREW & SIDE LEVER
SUSPENSION-	SINGLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø 390
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zefs	
WAGON No	23 85 7397 750 & 751	
BUILDER-	JOSEF MEYER	
OWNER-	SBB/CFF	

40 t GLW 2 AXLE TANK

	Α	В	С	D			TOPS INFO	RMATION		ALCOHOL .		
90	20	24 t	28	t	AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	20 1	24 t	28	t	CARKND	60 mile/h UP TO	40 tonne GLW	12 t FORCE UP TO	27 . 01144	LENGTH	(GLW)	SHEET
120					I B B C	mile/h ABOVE	40 toline GLVV	28 t FORCE ABOVE	27 t GLW	6	6	-





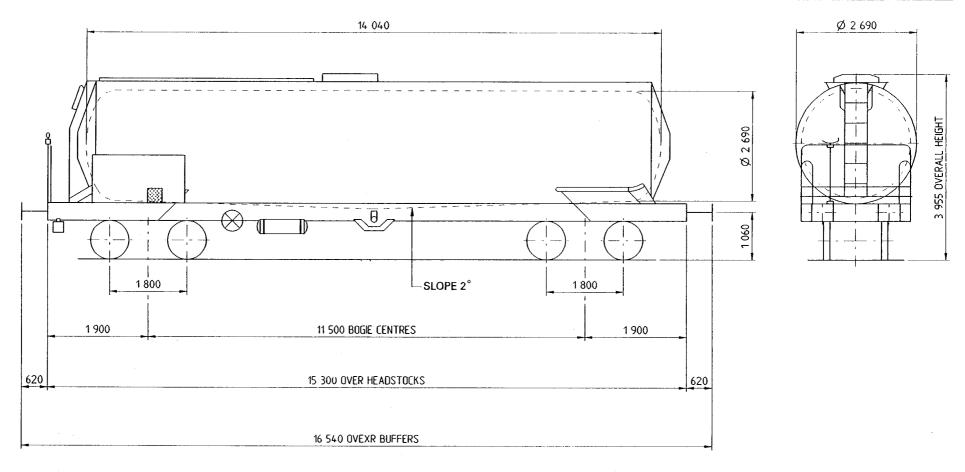
TARE-	12 t
CAPACITY, WEIGHT-	28 t
CAPACITY, VOLUME-	30 m ³
FLOOR AREA-	-
MIN.CURVE-	60 m
GEN.ARRGT.DRG.No	3-115967

BRAKE- AIR &	VAC THRO' PIPE; PLATFORM SCREW & SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC Ø 400 HD
WHEELS-	Ø 1 000
JOURNALS-	Ø 130

TYPE-	Zcefs	
WAGON No	23 85 7398 500-521	
BUILDER-	JOSEF MEYER	

80 t GLW BOGIE TANK

	1	Α	В	С	D			TOPS INFO	RMATION				
90	42	2.3t	50.3t	58.3t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	42	2.3t	50.3t	58.3t		CARKND	60 mile/h UP TO	80 tonne GLW	14 t FORCE UP TO	40 + 01144	LENGTH	(GLW)	SHEET
120		(00.0t			I C A D	mile/h ABOVE	oo tomie Grav	36 t FORCE ABOVE	40 t GLW	6	6	-



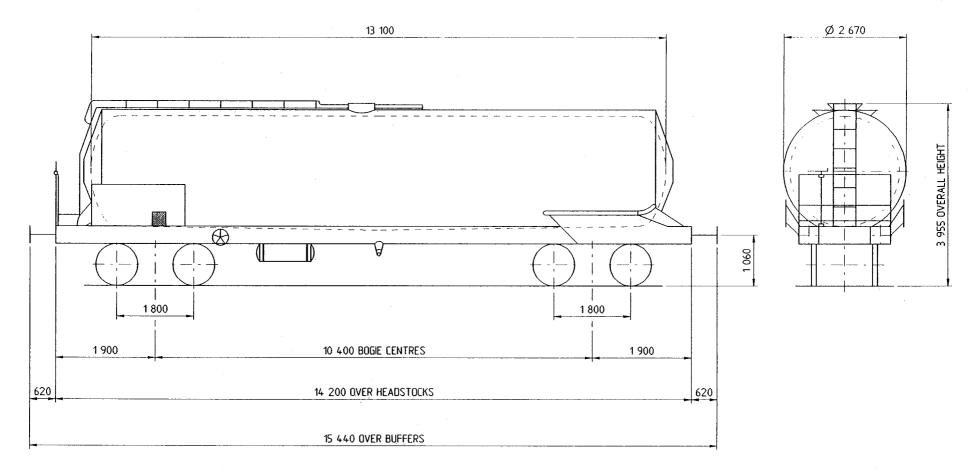
TARE-	21.7 t
CAPACITY, WEIGHT-	58.3 t
CAPACITY, VOLUME-	61 m ³
FLOOR AREA-	-
MIN.CURVE-	35 m
GEN.ARRGT.DRG.No	1.4.0.854

AIR; PLATFORM & SIDE SCREW
Y 25 CS2
INTERNATIONAL SCREW
HYDRAULIC 450 x 340
Ø 920
Ø 130

TYPE-	Zaefs
WAGON No	33 87 7992 000-010, 013-015
BUILDER-	C.EM.E

80 t GLW BOGIE TANK

	Α		В	С	D			TOPS INFO	RMATION				
90	43.7		51.7t	59.7t		AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	43.7	7t 5	1.7t	59.7t		CARKND	60 mile/h UP TO	80 tonne GLW	13 t FORCE UP TO	20+ 0114/	LENGTH	(GLW)	SHEET
120		0	0.0t			I C A D	mile/h ABOVE	oo tomie Grav	40 t FORCE ABOVE	38 t GLW	5	7	-

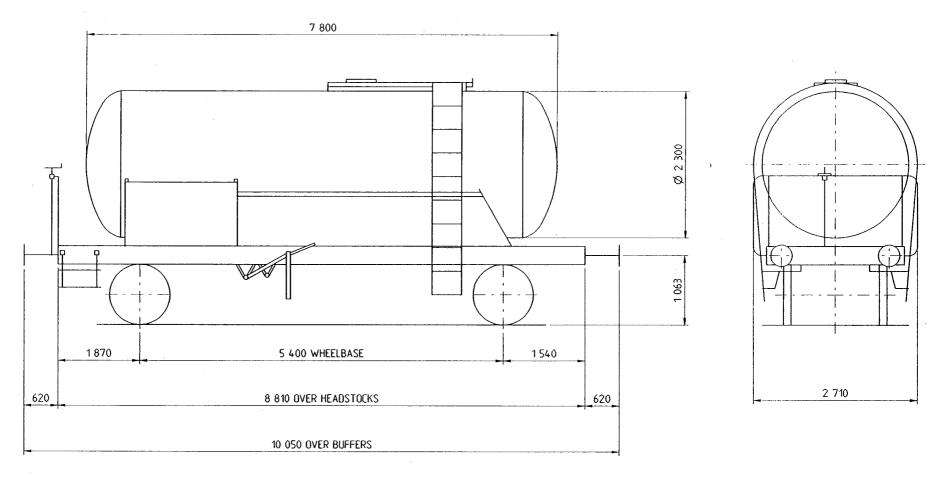


TARE-	20.3 t	
CAPACITY, WEIGH	H T- 59.7 t	
CAPACITY, VOLUI	ME- 60 m ³	
FLOOR AREA-	-	
MIN.CURVE-	60 m	
GEN.ARRGT.DRG.		

BRAKE-	AIR; PLATFORM & SIDE SCREW
SUSPENSION-	Y25Cs2
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC 450 x 340 HD
WHEELS-	Ø 920
JOURNALS-	Ø 130

TYPE-	Zacefs	
WAGON No	o 33 87 7995 000-002	
•		
BUILDER-	C.EM.E	

	Α	١.	В	С	D			TOPS INFO	RMATION				
90	20) t :		28 t	i	AARKND	OPERATING S	PEED	BRAKE FORCE D	ATA	EXCESS	RA	DESIGN
S	20) t :	24 t	28 t		CARKND	60 mile/h UP TO	40 tonne GLW	12 t FORCE UP TO	22 + 0114	LENGTH	(GLW)	SHEET
120						I B B C	mile/h ABOVE	40 tonne GLVV	28 t FORCE ABOVE	33 t GLW	6	6	-



TARE-	12.6 t
CAPACITY, WEIGH	IT- 27.4 t
CAPACITY, VOLUI	ME- 30 m ³
FLOOR AREA-	
MIN.CURVE-	60 m
GEN.ARRGT.DRG.	No3-116267

BRAKE- AIR 8	VAC THRO' PIPE; PLATFORM SCREW, SIDE LEVER
SUSPENSION-	DOUBLE LINK
COUPLINGS-	INTERNATIONAL SCREW
BUFFERS-	HYDRAULIC
WHEELS-	Ø -
JOURNALS-	Ø -

TYPE-	Zfs
WAGON No	23 85 7390 500-541, 543-547, 549-560
BUILDER-	J. MEYER, RHEINFELDEN