

NETWORK SERVICE PLAN

Addenda

The Addenda contains information relative to Field Application of TrackR, Train Running Documentation and qualifying instructions and details of all Locomotives and Rolling Stock Authorised to operate on the V/Line Rail Network.

ONLY LOCOMOTIVE AND ROLLING STOCK CLASSES CONTAINED WITHIN THIS DOCUMENT ARE PERMITTED TO OPERATE ON THE V/LINE RAIL NETWORK.

APPROVAL OF ANY ADDITIONAL LOCOMOTIVES OR ROLLING STOCK MUST BE OBTAINED FROM THE DIRECTOR, COMPLIANCE & SAFEWORKING PRIOR TO OPERATION ON THE V/LINE RAIL NETWORK.

APPROVAL OF ROAD / RAIL VEHICLES PER SECTION 34 – ROAD RAIL OPERATIONS



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NETWORK SERVICE PLAN

OPERATING REQUIREMENTS

TRACKR

The TrackR computer systems have been designed and constructed to assist all aspects of the rail operations, Billing and Business Functions.

The main source documents used by the train crew and other personnel associated with train preparation.

1. Train Consist report

This computer generated train consist package includes:

- Vehicle details
- Container details
- Sequence of vehicles on the train beginning from the locomotive
- Total train mass/length
- Enroute working instructions
- Locomotive Instructions
- Dangerous Goods wagon/container identification

2. Enroute attach/detach form

To be filled out in duplicate when shunting enroute and in possession of a computer generated consist report. Details of vehicles attached/detached are entered on the form and attached to the train consist report at the train destination and delivered to the OIC.

TRAIN DOCUMENTATION

It is essential that details required in the TrackR system are entered in a timely manner to ensure that current information is available for planning purposes and that each departing train crew is in possession of a TrackR generated train consist report.

At properly manned and equipped originating locations, a TrackR generated train consist report will be produced for the benefit of the Train Crew.

At other originating locations written train consist sheet will be prepared for the train crew and a copy left with the OIC for transmittal to the nearest TrackR input location.

Where the originating location is unattended, a copy of the written train consist is to be handed in at the first attended location enroute for transmittal to the nearest TrackR input location.

When practicable every effort is to be made to provide the train crew with an up to date TrackR generated consist report at the first attended computer equipped location where the train is scheduled to stop.

Train consist changes enroute. The enroute attach/detach forms must be compiled by the Train Crew and details (actual vehicle numbers) transmitted by base radio or telephone to the Train Controller so TrackR can be updated.

The Train Controller will update TrackR and advise the train crew of the updated length and tonnage and any other information pertinent to the operation/running of their train.

Train consist on incoming trains together with attaches and detaches sheet must be delivered to the OIC at the train destination so that the arrival consist can be validated (Main line Depot in case of branch line working).

If a radio and/or telephone fault occurs enroute, information is to be compiled on the forms in the usual manner and communicated to the Train Controller by the best means available according to the circumstances. Completed forms must be delivered to the OIC at the Train Destination.

On branch line working, particularly on grain lines, separate train consist forms for trains working in each direction must be compiled and attaches/detaches recorded on or attached to the respective forms.



OPERATING REQUIREMENTS

DANGEROUS GOODS

There is a legal requirement to declare all dangerous goods. The Train Operator accepting the dangerous goods consignment must therefore ensure that the proper documentation accompanies each and every dangerous goods consignment.

The Dangerous Goods Document must, on receipt, be faxed to the Intermodal Customer Service Section and Control and the destination location **before** the original papers are placed in the dangerous goods bag for the train crew.

The TrackR consist report will readily identify all dangerous goods wagons/containers in the train consist by displaying the class risk in the DG field against the wagons concerned. However, for the more specific details such as UN Number or Class Description, the Crew must refer to the contents of the dangerous goods bag.

SAMPLE TRAIN CONSIST

Train ID: 9421
Train Date: 11/11/2005
Origin: NGY
Destination: LYN
Total Tonnes: 760.2
Total Length: 173.5
No. of Units: 11
Locomotives:

DAN GDS	VEHICLE	ID	COMM	MASS	SENDER	CONSIGNEE	ORIGIN	DESTN	MC
	1 X	37	T	116.00			NGY	LYN	L16
	2 VPCX	23	S CEMT	68.00	IND	IND	NGY	LYN	ST3
	3 VPAX	71	L CEMT	69.40	IND	IND	NGY	LYN	
	4 VPAX	76	K CEMT	69.40	IND	IND	NGY	LYN	
	5 VPAX	83	Y CEMT	69.10	IND	IND	NGY	LYN	
	6 VPAX	85	J CEMT	69.10	IND	IND	NGY	LYN	
	7 VPAX	87	E CEMT	69.40	IND	IND	NGY	LYN	
	8 VPAX	91	E CEMT	69.40	IND	IND	NGY	LYN	
	9 VPAX	92	N CEMT	69.10	IND	IND	NGY	LYN	
	10 VPAX	105	V CEMT	69.10	IND	IND	NGY	LYN	G
	11 VPAX	106	H CEMT	69.10	IND	IND	NGY	LYN	
	12 VPCX	60	A CEMT	69.10	IND	IND	NGY	LYN	

WAGON INSTRUCTIONS

From Locn	Attach Locn	Qty	Loaded	Type	Comm.	Detach Locn	For Dest	Comments
WPD	NGY	11	L	CEMP	CEMT	LYN	LYN	Ex 9246-10.11.2005

LOCOMOTIVE INSTRUCTIONS

Status	Loco Nbr	Attach Locn	Detach Locn	Next Task
W	X37	NGY	LYN	9424 (11/11)

COMMENTS

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

COLEMAN RAIL

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Tamper	CR-T1	Harsco Technologies, TV2, Pandrol Jackson	14.85	32.0	30	30	BG
Ballast Tamper α ÷	70000	Harsco Jackson 6700 Ballast Tamper	15.875	36.0	25	25	SG
Ballast Regulator α	70034	Kershaw 46-2 Ballast Regulator	11.00	18.0	25	25	SG
Ballast Tamper α %	70035	Harsco Mk VI 2 Axle Tamper	17.1	43.545	80	N/A	BG/SG SEE NOTE %
Ballast Regulator α #	CR-R1	Kershaw 26/3	9.703	12.635	30	30	BG/SG
Ballast Regulator α #	CR-R2	Plasser PBR-201	9.4	17.784	30	30	BG/SG
Ballast Regulator α	70036	Harsco TV-2 Ballast Regulator	12.7	25.0	80	N/A	BG/SG
Sleeper Trailer α	TRR-003	Harry Bilt	6.7	25.0	15	NA	BG, SG
Sleeper Trailer α	TRR-010	Harry Bilt	8.150	25.0	15	NA	BG, SG
Sleeper Trailer α	TRR-012	Harry Bilt	4.2	15.0	15	NA	BG, SG
Sleeper Trailer α	TRR-013	Harry Bilt	5.2	16.75	15	NA	BG, SG
Sleeper Trailer α	TRR-017	Harry Bilt	5.2	16.75	15	NA	BG, SG
Sleeper Trailer α	TRR-024	Harry Bilt	5.2	16.75	15	NA	BG, SG
Ballast Tamper	41265	Plasser 08-16SH	14.54	42.65	80	50	BG
Ballast Tamper φ	41269	Plasser 08-16SH (Serial M532)	14.54	42.5	80	N/A	BG/SG Unable to operate on Class 4 or 5 track with wheel size less than 700mm.
Ballast Regulator	41111	Plasser PBR 201C	9.6	19	70	50	BG
Ballast Regulator	41115	Plasser PBR 201B	8.0	15.5	70	50	SG John Holland
Ballast Regulator ~	41116	Plasser PBR 201B	8.0	15.5	70	50	BG
Production Tamper	41224	Plasser 08-16B	14.0	32	70	50	SG John Holland
Ballast Tamper	41229	Plasser 07-16 Mainliner	18.3	39.75	80	50	SG/BG John Holland
Ballast Tamper	Z025/085	Harsco 6700SJ Jupiter	14.15	32.5	50	N/A	BG/SG McConnell Dowell
Ballast Regulator	Z025/100	Kershaw 46-2 Regulator	10.6	18	40	N/A	BG/SG McConnell Dowell
Crib & Shoulder Compactor	41307	Tamper CSC-2	7.0	14	50	40	BG John Holland
Crib & Shoulder Compactor	41309	Tamper CSC-2	7.0	14	50	40	BG John Holland
Ballast Tamper	Z025/408	Tamper CSC	7.0	12.4	40	N/A	BG/SG McConnell Dowell
Ballast Tamper	Z025/083	Harsco Jackson 6700s	14.15	32.5	40	N/A	BG/SG McConnell Dowell
Rail Lifter α	45501	Rail Lifter, Gemco Rail, Model C.42881.	3.1	2.1	20	N/A	BG John Holland

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

COLEMAN RAIL

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Rail Grinder α	N/A	Speno "RR24MT2A" Series Rail Grinder 1 x Locomotive and 3 x Wagons	45.8	155.340	50	50	SG Speno Rail

- Note α** Operates in closed work site only after site specific risk assessment.
- Note #** Not approved to operate within platform pits account clearance
- Note %** Max Speed 25 km/h on Class 4 and 5 Track.
Must not operate with wheel diameter less than 740mm.
- Note ÷** Max speed when passing through passenger platforms, 15km/h.
- Note ~** Max speed when passing through passenger platforms, 25km/h.
- Note ϕ** No superimposed load to be stored on the deck or cab, over axle 1 when operating on class 4 or class 5 track.

RAIL OPERATORS ROLLINGSTOCK

CPB CONTRACTORS

TRACK MACHINES

On Hire/Lease to CPB CONTRACTORS

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Tamper	Z025/085	Harsco 6700SJ Jupiter	14.15	32.5	50	N/A	BG/SG McConnell Dowell
Ballast Regulator	Z025/104	Knox Kershaw KBA-925	11.58	21.0	60	N/A	BG McConnell Dowell
Ballast Tamper α	TAMP027	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
Ballast Regulator α	REG009	Kershaw KBR925	10.973	19.96	40	N/A	BG/SG Select Plant Hire

Note α Operates in closed work site only after site specific risk assessment.



RAIL OPERATORS ROLLINGSTOCK

DT INFRASTRUCTURE PTY LTD

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Tamper	TA001,002,004,005	Pandrol Jackson 6700s Ballast Tamper	13.3	31.8	72	50	BG
Ballast Tamper	TA0008	Harsco MKV1 Tamper	15.37	35.36	80	N/A	BG/SG
Ballast Regulator	BR001,002,003,005,006	Knox Kershaw KBR850 Ballast Regulator	11.2	16	72	50	BG
Ballast Regulator	BR0008	Knox Kershaw KBR925	11.48	21.04	80	N/A	BG/SG
Ballast Compactor	CO 001	Plasser M393 Ballast Compactor	8.6	20.2	30	30	BG
Track Lifter α	OS-026	Gemco P941-04 Track Lifter	3.0	2.2	15	N/A	BG/SG
Track Lifter α	OS-027	Gemco P942-04 Track Lifter	3.0	2.2	15	N/A	BG/SG
Tie Crane α	HA-001	Harsco TTH / 226372 Tie Crane	4.25	7.5	15	N/A	BG/SG
Tie Crane α	HA-002	Harsco TTH Tie Crane	4.25	7.5	15	N/A	BG/SG
Sleeper Inserter α	SI-003	Harsco TSR / 226392 Sleeper Inserter	6.0	7.2	15	N/A	BG/SG
Sleeper Inserter α	SI-004	Harsco TSR / 226402 Sleeper Inserter	6.0	7.2	15	N/A	BG/SG
Sleeper Inserter α	SI-005	Nordco Tripp Tie Inserter	16.3	10.7	30	30	BG
Scarifier α	BL-002	Harsco TLS / 226412 Scarifier	6.5	6.0	15	N/A	BG/SG

Note α Operates in closed work site only after site specific risk assessment.

On Hire/Lease to DT INFRASTRUCTURE PTY LTD

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Tamper	41265	Plasser 08-16SH	14.54	42.65	80	50	BG John Holland
Ballast Regulator	41116	Plasser PBR 201B	8.0	15.5	70	50	BG John Holland
Ballast Regulator	41111	Plasser PBR 201C	9.6	19	70	50	BG John Holland
Ballast Tamper φ	41269	Plasser 08-16SH (Serial M532)	14.54	42.5	80	N/A	BG/SG John Holland
Unable to operate on Class 4 or 5 track with wheel size less than 700mm.							
Crib & Shoulder Compactor	41309	Tamper CSC-2	7.0	14	50	40	BG John Holland

Note φ No superimposed load to be stored on the deck or cab, over axle 1 when operating on class 4 or class 5 track.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

EAST COAST HERITAGE RAIL

DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
X	115 ♦	118	19.70	6,820	18.400	1490	No. 54 (Series 3) Standard Gauge Only

Note ♦ Maximum speed 50 km/h when running long end leading. These locomotives are only permitted to operate on Main Lines from the short end, except for long end movements to and from Spencer Street and South Dynon Loco, and Post No.204 at West Tower to South Dynon and return.

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO EAST COAST HERITAGE RAIL

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Chumrail	421	115	110	18.33	5,500	18.600	1340	No's. 42103 and 42105. Route and Load availability as per S Class Locomotive Category. Standard Gauge Only
The Heritage Locomotive Company Pty Ltd.	421	115	110	18.33	5,500	18.600	1340	No. 42101. Route and Load availability as per S Class Locomotive Category. Standard Gauge Only
Rail Power	CLF	115	128	21.33	9600	20.500	2240	No's. 2, 4. May operate as per G Class locomotive category. Standard Gauge Only
	CLP	115	131.9 @	22.00	9600	20.498	2240	No's. 11, 13. Single ended. May operate as per 81 class locomotive category with fuel capacity limited to 6000 litres. Standard Gauge Only

Note @ Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS"

EAST COAST HERITAGE RAIL

PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
ABN	Crew Car	115	41	19.400	No. 2194. Standard Gauge Only.
FRN	Second Class Sitting Car with Buffet	115	41	19.400	No. 2186. "Lachlan" Standard Gauge Only.
SBN	First Class Sitting Car	115	41	19.400	No. 2195. "Macquarie" Standard Gauge Only.
SFN	Second Class Sitting Car	115	41	19.400	No. 2182. Standard Gauge Only.

RAIL OPERATORS ROLLINGSTOCK

GREAT SOUTHERN RAIL LTD

PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
ACC Ω	Lounge Car	115	48.7	23.826	No. 223 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
AFC Ω	Lounge Car	115	41.3	23.826	No. 213, 301, 305, 307, 937 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
AG	First Class Sitting Car	115	46.8	23.850	No. 369, 372, 373, 374, 375, 376 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
AOB Ω	Lounge Car	115	44.1	23.826	No. 265 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
ARJ Ω	First Class Roomette Sleeping Car	115	47.5	23.826	No. 242, 243, 272, 282, 941, 945, 984 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
ARL Ω	First Class Twinette Sleeping Car	115	47.8	23.826	No. 246, 248-250, 289, 291, 293, 308-310, 324, 326, 921-923, 925, 961-963, 992 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
ARM Ω	First Class Twinette Sleeping Car	115	47.7	23.826	No. 288, 947, 951-953, 987, 990 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BG	Economy Class Sitting Car	115	46.8	23.850	No. 368, 370, 371 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BJ	Economy Class Sitting Car	115	46.8	23.850	No. 4-10 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BMC	Special Car	115	48	23.900	No. 2 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BRG Ω	Twinette Sleeping Car	115	49.3	23.826	No. 168, 171, 175, 972, 974 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BRJ Ω	Twinette Sleeping Car	115	48.7	23.826	No. 270, 302, 303, 912, 915, 918, 919 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
CCL	Lounge Car	115	43.0	23.900	No. 2 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
CDF Ω	Dining Car	115	44.1	23.826	No. 225, 924, 928, 929, 966 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
DF Ω	Dining Car	115	47.3	23.826	No. 231-233, 294, 304, 927, 930, 934, 964 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
ER Ω	Crew Car	115	47.0	23.826	No. 207, 313, 906, 909 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
HGM Ω	Power Van	115	56.6	23.826	No. 296-298, 317, 900, 902-904 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
HM Ω	Luggage Van	115	39.6	23.826	No. 255, 256, 318, 957-959 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

GREAT SOUTHERN RAIL LTD

PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
JTB	Twinette Sleeping Car	115	48.0	23.900	No. 1-4 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
PCO	Power Van	115	67.0	23.900	No. 4 Stainless Steel Body, Auto couplings. Standard Gauge Only
PHN	Power Van	115	31.0	12.450	No. 2369 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
RBJ	Economy Class Sitting Car with Buffet	115	46.7	23.850	No. 3 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
SSA Ω	Excursion Sleeping Lounge Car	115	46.0	23.800	No. 260 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only

Note Ω Authorised to operate on SG Network Southern Cross Station only

GREAT SOUTHERN RAIL LTD

FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
AMPZ Ω	Car Wagon	115	28			23.115	1435	No			No. 238, 264, 271 Standard Gauge Only
AMRZ Ω	Car Wagon	115	28			23.115	1435	No			No. 240, 241, 244, 251,255,258, 263, 268, 269, 272, 2591, Standard Gauge Only

Note Ω Authorised to operate on SG Network Southern Cross Station only



RAIL OPERATORS ROLLINGSTOCK

JOHN HOLLAND

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Regulator	41110	Comeng Mk 2	8.9	12.5	70	50	BG
	41111	Plasser PBR 201C	9.6	19	70	50	BG
	41112	Plasser PBR 201C	8.0	15.5	70	50	SG
	41113	Plasser PBR 201A	9.6	19.2	70	40	SG
	41115	Plasser PBR 201B	8.0	15.5	70	50	SG
	41116	Plasser PBR 201B	8.0	15.5	70	50	BG
	41117	Plasser PBR 201B	9.6	19	70	50	BG
Ballast Tamper	41229	Plasser 07-16 Mainliner	18.3	39.75	80	50	SG/BG
Ballast Tamper	41265	Plasser 08-16SH	14.54	42.65	80	50	BG
Ballast Tamper ϕ	41268	Plasser 08-16SH (Serial M535)	15.564	42.5	80	N/A	SG
Ballast Tamper ϕ	41269	Plasser 08-16SH (Serial M532)	14.54	42.5	80	N/A	BG/SG
			Unable to operate on Class 4 or 5 track with wheel size less than 700mm.				
Beaver Tamper	41217	Plasser 79-800W	14.0	36	70	50	SG/BG
Crib & Shoulder Compactor	41306	Tamper CSC-2	7.0	14	50	40	BG
	41307	Tamper CSC-2	7.0	14	50	40	BG
	41309	Tamper CSC-2	7.0	14	50	40	BG
Production Tamper	41210	Plasser 07-16B	14.0	32	70	50	BG
	41220	Plasser 07-16B	14.0	32	70	50	BG
	41224	Plasser 08-16B	14.0	32	70	50	SG
Switch/Track Panel Handling Equipment	340130-40	PEM 807(6 Units) (even numbers)	2.11	24.0 (Loaded)	6	N/A	BG/SG
	340131-41	LEM 460(6 Units) (even numbers)	3.28	24.2(Loaded)			
Switch Tamper	412001	Plasser Unimat 08-475/4S, Serial No M520	32.30	98	40	N/A	BG/SG
Rail Lifter α	45501	Rail Lifter, Gemco Rail, Model C.42881.	3.1	2.1	20	N/A	BG
Rail Lifter α	45502	Rail Lifter, Gemco Rail, Model C.42881.	3.1	2.1	20	N/A	BG

- Note #** These machines are not insulated and will not operate Track Circuits. All other machines cannot be relied upon to operate Track Circuits and must be protected as prescribed by instructions in the Book of Rules and Operating Procedures 1994.
- Note α** Operates in closed work site only after site specific risk assessment.
- Note ϕ** No superimposed load to be stored on the deck or cab, over axle 1 when operating on class 4 or class 5 track.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

LAING O’ROURKE AUSTRALIA CONSTRUCTION

TRACK MACHINES

On Hire/Lease to LAING O’ROURKE AUSTRALIA CONSTRUCTION

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge/ Remarks/ Restrictions
Ballast Tamper	TAMP015	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
<ul style="list-style-type: none"> Vehicle to slow to 15 km/h when passing passenger platforms. Limited to 40 km/h only. 							
Ballast Tamper α	TAMP027	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
Ballast Tamper α	TAMP044	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
Ballast Regulator α	REG009	Kershaw KBR925	10.973	19.96	40	N/A	BG/SG Select Plant Hire
Ballast Regulator	REG011	Kershaw KBR925	10.973	19.96	40	N/A	BG/SG Select Plant Hire
Ballast Regulator α	REG013	Kershaw KBR925	11.000	17.690	40	N/A	BG/SG Select Plant Hire

Note α Operates in closed work site only after site specific risk assessment.

LORAM

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge/ Remarks/ Restrictions
Rail Grinder	MMY032	2008 Loram TV2 Rail Grinder 1 x Power Car (Locomotive) 3 x Grind Wagons and 1 x Support Car with Driving Trailer Cab	53.0	173.000	60	60	BG
			<ul style="list-style-type: none"> Speed not to exceed 40kph on Class 4 and 5 lines. Power Car water load to be limited to provide maximum axle load of 19t on Class 5 lines 				



RAIL OPERATORS ROLLINGSTOCK

MCCONNELL DOWELL

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge/Remarks/Restrictions
Ballast Tamper	Z025/408	Tamper CSC	7.0	12.4	40	N/A	BG/SG
Ballast Tamper	Z025/081	Harsco Jackson 6700	14.15	32	50	N/A	SG
Ballast Tamper	Z025/082	Plasser 09-32 CSM Tamper	27.9	69.5	60	N/A	BG
Ballast Tamper	HB01	Plasser 09-32 CSM Tamper	20.2	56	80	N/A	SG
Ballast Tamper	Z025/083	Harsco Jackson 6700s	14.15	32.5	40	N/A	BG/SG
Ballast Tamper	TJ061	Plasser Tamper	19.0	38.0	50	N/A	SG
Ballast Tamper α	TAMP001	Jackson Tamper	15.7	31.7	15	N/A	BG/SG
Ballast Tamper α	JAX01	Harsco Jackson Tamper	15.0	32.5	15	N/A	SG
Ballast Tamper	TRA-JAX-002	Harsco Jackson Tamper	15.9	32.5	40	N/A	BG/SG
Ballast Regulator α	REG-3	Plasser PBR-201 Regulator	9.4	18.0	25	N/A	BG/SG
Ballast Regulator	HB02	Plasser Regulator	17.0	38.0	80	N/A	SG
Ballast Regulator	Z025/100	Kershaw 46-2 Regulator	10.6	18	40	N/A	BG/SG
Ballast Regulator	Z025/101	Kershaw Regulator	10.4	17.7	50	N/A	BG/SG
Ballast Regulator	Z025/103	Harsco BE-AD	10.4	20.5	75	N/A	BG/SG 60km/h max speed on Class 3 and 4 Track
Ballast Regulator	Z025/104	Knox Kershaw KBA-925	11.58	21.0	60	N/A	BG
Ballast Regulator α	REG001	Kershaw Regulator	10.45	17.7	15	N/A	BG/SG
Ballast Regulator α	REG002	Kershaw Regulator	10.5	17.5	15	N/A	SG
Ballast Regulator	TRA-REG-003	Kershaw Regulator	10.5	20.0	40	N/A	BG/SG
Ballast Tamper	Z025/085	Harsco 6700SJ Jupiter	14.15	32.5	50	N/A	BG/SG
Flash Butt Welder	Z025/061	VAIACAR Flash Butt Welder	7.2	23.25	15	N/A	SG
Flash Butt Welder	Z025/062	VAIACAR Flash Butt Welder	7.2	23.25	15	N/A	SG
Track Lifter α	OS-026	Gemco P941-04 Track Lifter	3.0	2.2	15	N/A	BG/SG
Track Lifter α	OS-027	Gemco P942-04 Track Lifter	3.0	2.2	15	N/A	BG/SG
Tie Crane α	HA-001	Harsco TTH / 226372 Tie Crane	4.25	7.5	15	N/A	BG/SG
Tie Crane α	HA-002	Harsco TTH Tie Crane	4.25	7.5	15	N/A	BG/SG
Sleeper Inserter α	SI-003	Harsco TSR / 226392 Sleeper Inserter	6.0	7.2	15	N/A	BG/SG
Sleeper Inserter α	SI-004	Harsco TSR / 226402 Sleeper Inserter	6.0	7.2	15	N/A	BG/SG
Scarifier α	BL-002	Harsco TLS / 226412 Scarifier	6.5	6.0	15	N/A	BG/SG
Screw Spiker α	MS-086	Nordco M3 Master / 450086 Screw Spiker	5.1	6.5	15	N/A	BG/SG
Screw Spiker α	MS-226	Nordco M3 Master / 450226 Screw Spiker	5.1	6.5	15	N/A	BG/SG
Sleeper Trolley α	ST-001	Downer Sleeper Trolley	2.6	.6	15	N/A	BG/SG
Sleeper Trolley α	ST-002	Downer Sleeper Trolley	2.6	.6	15	N/A	BG/SG
Tripp Machine α	TRI-583	Nordco D / 760583-14 Tripp Machine	10.95	16.6	40	N/A	BG/SG
Spindle Borer α	6.35.234	Comeng Spindle Borer	4.9	6.0	15	N/A	BG/SG
Clipping Machine α	UP07	Racine Clipping Machine Max speed through Points and Level Crossings 5 km/h	4.3	4.0	15	N/A	BG/SG
Rail Grinder α	COR-05	Harsco Rail Grinder	4.8	4.5	15	N/A	SG
Ballast Tamper	CR-T1	Harsco Technologies, TV2, Pandrol Jackson	14.85	32.0	30	30	BG
Ballast Regulator α #	CR-R2	Plasser PBR-201	9.4	17.784	30	30	BG/SG
Ballast Tamper α	TAMP044	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
Ballast Tamper	TAMP015	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
		<ul style="list-style-type: none"> Vehicle to slow to 15 km/h when passing passenger platforms. Limited to 40 km/h only. 					

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

MCCONNELL DOWELL

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge/Remarks/Restrictions
Ballast Tamper α	TAMP027	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
Ballast Regulator α	REG009	Kershaw KBR925	10.973	19.96	40	N/A	BG/SG Select Plant Hire
Ballast Regulator	REG011	Kershaw KBR925	10.973	19.96	40	N/A	BG/SG Select Plant Hire
Ballast Regulator α	REG013	Kershaw KBR925	11.000	17.690	40	N/A	BG/SG Select Plant Hire

Note α Operates in closed work site only after site specific risk assessment.

Note # Not approved to operate within platform pits account clearance



RAIL OPERATORS ROLLINGSTOCK

METRO TRAINS MELBOURNE

PASSENGER VEHICLES

Class and Description of Vehicle	Max Speed Km/h	Mass Rating (Tonnes)	Passenger Seating	Length of Vehicle metres	Number of Vehicles Vehicle Numbers	Remarks / Restrictions
HITACHI (CFD / NOR) TYPE						
M Motor Car	115	51.7	86	23.600	<u>18 vehicles</u> 3, 9, 10, 21–23, 46, 49, 57, 65, 88, 129, 144, 179, 184, 196, 197, 233.	Stainless steel body, auto/drawbar couplings.
T Trailer Car	115	36.4	96	23.600	<u>8 vehicles</u> 1909, 1919, 1922, 1975, 1977, 1981, 1982, 1987.	Stainless steel body, drawbar couplings.
T Trailer Car (Former 'D' type car)	115	36.3	89	23.600	<u>1 vehicles</u> 2007.	Stainless steel body, drawbar couplings. Still with (non-operational) cabs and 'D' car seating configuration.
HITACHI (BLY / CHL) TYPE						
M Motor Car	115	51.7	86	23.600	<u>6 vehicles</u> 36, 37, 42, 105, 110, 178.	Stainless steel body, auto/drawbar couplings.
T Trailer Car	115	36.4	96	23.600	<u>2 vehicles</u> 1910, 1979.	Stainless steel body, drawbar couplings.
T Trailer Car (Former 'D' type car)	115	36.3	89	23.600	<u>1 vehicles</u> 1999.	Stainless steel body, drawbar couplings. Still with (non-operational) cabs and 'D' car seating configuration.
COMENG (EDI) TYPE						
M Motor Car (with Standard Tread Brakes)	115	50.6	89	24.000	<u>192 Vehicles</u> 301#–321#, 324, 327–329, 331–337, 342–349, 351–358, 365, 366, 369–372, 377–387, 389, 390–412, 417, 418, 421–424, 426–458, 464–466, 471–474, 477, 478, 481–483, 485–487, 493–499, 501–508, 511–516, 518–522, 525, 526, 530–532, 534–536, 539–550, 553, 554.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings. #–Nos. 301–321 contains Full Innovonics Equipment upgrade.
M Motor Car (with Standard Tread Brakes.)	115	50.4	75	24.000	<u>2 vehicles</u> 541, 542.	Under trial. Modified seating. Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
M Motor Car (with Standard Tread Brakes and AEG equipment)	115	50.6	89	24.000	<u>2 vehicles</u> 367, 368.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
T Trailer Car (with Standard Tread Brakes)	115	34.7	100	23.200	<u>96 vehicles</u> 1001–1010, 1014–1019, 1023, 1024, 1026–1029, 1031, 1033, 1035, 1036, 1039–1056, 1059, 1061–1068, 1069–1079, 1082, 1083, 1086, 1087, 1089, 1091, 1093, 1097–1099, 1100–1104, 1106–1108, 1110, 1111, 1113, 1115, 1116, 1118, 1120–1127.	Air-conditioned, stainless steel body. Semi-permanent couplings.
T Trailer Car (with Standard Tread Brakes)	115	34.5	80	23.200	<u>1 vehicles</u> 1121.	Under trail. Modified seating. Air-conditioned, stainless steel body. Semi-permanent couplings.
T Trailer Car (with Standard Tread Brakes and AEG equipment)	115	34.7	100	23.200	<u>1 vehicles</u> 1034.	Air-conditioned, stainless steel body. Semi-permanent couplings.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

METRO TRAINS MELBOURNE

PASSENGER VEHICLES

Class and Description of Vehicle	Max Speed Km/h	Mass Rating (Tonnes)	Passenger Seating	Length of Vehicle metres	Number of Vehicles Vehicle Numbers	Remarks / Restrictions
COMENG (ALSTOM) TYPE						
M Motor Car (with Standard Tread Brakes)	115	50.6	86	24.000	<u>50 vehicles</u> 322, 323, 325, 326, 330, 338–341, 350, 359–364, 373–376, 419, 420, 425, 459–463, 467, 468, 475, 476, 479, 480, 484, 488–492, 509, 510, 517, 523, 524, 527, 528, 529, 537, 538.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
M Motor Car (with Knorr Tread Brakes)	115		86	24.000	<u>4 Vehicles</u> 413, 414, 415, 416.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
M Motor Car (with Disc Brakes)	115	47.1	86	24.000	<u>118 vehicles</u> 561–670, 673–680.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
M Motor Car (with Tread Brakes and Chopper equipment)	115	62.1	86	24.000	<u>8 vehicles</u> 691–698.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
T Trailer Car (with Standard Tread Brakes)	115	34.6	96	23.200	<u>26 vehicles</u> 1011–1013, 1020–1022, 1025, 1030, 1032, 1037, 1038, 1060, 1080, 1081, 1084, 1088, 1090, 1092, 1094–1096, 1105, 1112, 1114, 1117, 1119.	Air-conditioned, stainless steel body. Semi-permanent couplings.
T Trailer Car (with Knorr Tread Brakes)	115		96	23.200	<u>2 vehicles</u> 1057, 1058.	Air-conditioned, stainless steel body. Semi-permanent couplings.
T Trailer Car (with Disc Brakes)	115	31.1	96	23.200	<u>59 vehicles</u> 1022, 1131–1164, 1166–1190.	Air-conditioned, stainless steel body. Semi-permanent couplings.
T Trailer Car (with Standard Tread Brakes and Chopper equipment)	115	34.6	96	23.200	<u>4 vehicles</u> 1196–1199.	Air-conditioned, stainless steel body. Semi-permanent couplings.
UN-REFURBISHED COMENG (CFD / NOR) TYPE						
M Motor Car (with Standard Tread Brakes)	115	49.8	92	24.000	<u>2 vehicles</u> 500, 533.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings. Nos. 500 & 533 stored.
T Trailer Car (with Standard Tread Brakes)	115	34.0	102	23.200	<u>1 vehicle</u> 1117.	Air-conditioned, stainless steel body. Semi-permanent couplings. No. 1117 stored.
SIEMENS TYPE						
M Motor Car	130	41.5	84	24.070	<u>144 vehicles</u> 701–844	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
T Trailer Car	130	37.5	96	23.770	<u>72 vehicles</u> 2501–2572	Air-conditioned, stainless steel body. Semi-permanent couplings.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

METRO TRAINS MELBOURNE

PASSENGER VEHICLES

Class and Description of Vehicle	Max Speed Km/h	Mass Rating (Tonnes)	Passenger Seating	Length of Vehicle metres	Number of Vehicles Vehicle Numbers	Remarks / Restrictions
X'TRAPOLIS TYPE						
M Motor Car	130	43.3	86	24.460	<u>116 vehicles</u> 851–966.	Air-conditioned, all steel body. Multi-function/semi-permanent couplings.
T Trailer Car	130	35.5	92	22.760	<u>58 vehicles</u> 1626–1683	Air-conditioned, all steel body. Semi-permanent couplings.
X'TRAPOLIS TYPE (Modified Interior – Second Series)						
M Motor Car	130	43.3	74	24.460	<u>288 vehicles</u> 1–288.	Air-conditioned, all steel body. Multi-function/semi-permanent couplings.
T Trailer Car	130	35.5	80	22.760	<u>144 vehicles</u> 1301–1444	Air-conditioned, all steel body. Semi-permanent couplings.
LOCO HAULED STOCK						
MTH Saloon Car	115	39	63	19.200	<u>4 vehicles</u> 101,103,104.	Air-conditioned, all steel body. Auto couplings. Diesel alternator fitted to supply power.
IEV Inspection Car	80	39	N/A	19.200	1 vehicle, No.102.	Overhead infrastructure inspection vehicle. Pantographs fitted.
EV Inspection Car	120	47	N/A	21.550	1 vehicle, No.120.	Infrastructure Evaluation Vehicle. Pantographs fitted.

METRO TRAINS MELBOURNE

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Track Recorder Car ♦	No. IEV 100 # (Formerly EM100)	Plasser EM100	15.0	46	80 Recording 100 Not Rec	75 80	BG/SG

- Note ♦** On all Safeworking Systems these vehicles must be signalled as a Train and may be followed through Automatic Block Signalling Territory by other trains.
In Train Order Territory, the Road Number of the Vehicle must be shown as a locomotive number on the Train Order.
- Note #** These machines are not insulated and will operate Track Circuits. All other machines cannot be relied upon to operate Track Circuits and must be protected as prescribed by instructions in the Book of Rules and Operating Procedures 1994.



RAIL OPERATORS ROLLINGSTOCK

METRO TRAINS MELBOURNE

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO METRO TRAINS MELBOURNE

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Chicago Freight Car Leasing Australia	B	115	123	20.50	4,540	18.500	1120	No. 76,80
	T	100	69	17.30	3,410	13.400	710	No's. 369, 373, 376, 377.
Southern Shorthaul Railroad	P	100	77	19.20	3,410	14.600	710	Nos. 11, 14, 16, 17, 18. Fitted with auxiliary generator to provide Head End Power.

METRO TRAINS MELBOURNE

FREIGHT VEHICLES

ON HIRE/LEASE TO METRO TRAINS MELBOURNE

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Availabl e for Bogie Exchan ge	Old Class	Deck Ht (mm)	Remarks/Restriction
CFCF	Flat Rail Threader Wagon	80	24	10		13.970	1600 1435	Yes	VZCA	1186	No. 1 (CFCLA)
CFSX	Auto Sleeper Discharge	80	22	41		13.100	1600 1435	Yes	VZSX GFSX		Nos. 125 (CFCLA)
CHOY	Ballast Hopper Remote Controlled	80 (90 when empty)	25	51		13.200	1600 1435	Yes	VZMF GHMF CHMF		Nos. 6016, 6019-28, 6031, 6045-47 (CFCLA)
CQCY	Container Flat (can also be used to carry rail)	80	18	58		14.691	1600 1435	Yes	NDRF	1130	Nos. 1-10 (CFCLA)
CQRX	Container Flat (can also be used to carry rail)	90	25	51	4000	23.700	1600 1435	Yes	VZRF GQRX	1194	Nos. 310- 314, 318-319. May load to 80 tonnes at 80 km/h max speed (CFCLA)

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

METRO TRAINS MELBOURNE

TRACK MACHINES

ON HIRE/LEASE TO METRO TRAINS MELBOURNE

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Regulator	6-54-002	Comeng Mk 2	8.9	12.5	70	50	BG
	6-54-018	Tamper BE VR	6.8	12	70	50	BG
Beaver Tamper	6-52-006	Plasser 79-800W	14.0	36	70	50	BG
	6-52-014	Plasser 79-800W	14.0	36	70	50	BG
Crib & Shoulder Compactor	6-57-006	Tamper CSC-2	7.0	14	50	40	BG
Ballast Tamper α	TAMP027	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
Ballast Tamper α	TAMP044	Jackson 6700	15.875	32	40	N/A	BG/SG Select Plant Hire
Ballast Regulator α	REG009	Kershaw KBR925	10.973	19.96	40	N/A	BG/SG Select Plant Hire
Ballast Regulator α	REG013	Kershaw KBR925	11.000	17.690	40	N/A	BG/SG Select Plant Hire

Note α Operates in closed work site only after site specific risk assessment.



RAIL OPERATORS ROLLINGSTOCK

NSW TRAINS

DIESEL ELECTRIC LOCOMOTIVES

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
XP	160	76.0	19.00	4,500	17.300	1490	Nos.2000-2016 Standard Gauge Only.
	160	76.0	19.00	4,500	17.300	1490	Nos.2017, 2019. Leased from Dept. of Infrastructure (Vic). Standard Gauge Only.

NSW TRAINS

PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
XAM	XPT Sleeping car	160	48	24.200	Nos 2175-2178. Leased from Dept. of Infrastructure (Vic). Standard Gauge Only.
XAM	XPT Sleeping car	160	48	24.200	Nos 2180-2183. Standard Gauge Only.
XBR	XPT First with Buffet	160	44	24.200	Nos 2150-2158. Standard Gauge Only.
XF	XPT Economy Car	160	42	24.200	Nos 2200, 2202-2222, 2224. Standard Gauge Only.
XFH	XPT Economy/Luggage Compartment	160	40	24.200	Nos 2104-2110, 2112, 2113. Standard Gauge Only.
XL	XPT First Class Sitting	160	40	24.200	Nos 2228. Leased from Dept. of Infrastructure (Vic). Standard Gauge Only.
XL	XPT First Class Sitting	160	40	24.200	Nos 2230-2236. Standard Gauge Only.
XL	XPT Non-Driving Trailer	160	40	24.200	No. 2237. Standard Gauge Only.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

ONE RAIL AUSTRALIA

DIESEL ELECTRIC LOCOMOTIVES

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
22 ♦	115	110	18.30	5,450	18.440	2000	Nos. 2207, 2210, 2212, 2214, 2216. Double ended. Maximum speeds applicable to 'G' class locomotives. May haul loads applicable to 'X' class locomotives for loads Standard Gauge Only
700	112	112	18.60	5455	18.670	1490	Nos. 701, 703 & 705 May operate as per 'X' class locomotive category. Standard Gauge Only
ALF	115	129.7 @	21.60	9600	20.684	3000	Nos 18 – 24. Restricted access since vehicle exceeds 19 tonne axle limit. Single ended. May operate as per G class locomotive category. Standard Gauge Only
CLF	115	131.9 @	22.00	9600	20.498	3000	Nos 5, 6. Restricted access since vehicle exceeds 19 tonne axle limit. Single ended. May operate as per C class locomotive category. Standard Gauge Only
CLP	115	131.9 @	22.00	9600	20.498	3000	Nos 8, 14, 16, 17. Restricted access since vehicle exceeds 19 tonne axle limit. Single ended. May operate as per C class locomotive category. Standard Gauge Only
GM (Type 2)	115	116	19.30	6,825	17.900	1340	Nos. 32, 34, 37, 38, 40, 42 - 47 Single ended. Standard Gauge Only.
G	115	128	21.33	9,600	20.700	2240	Nos. 533, 535 Fitted with Super-Series traction equipment.

Note ♦ Also known as 2200 Series

Note @ Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS"

ONE RAIL AUSTRALIA

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO ONE RAIL AUSTRALIA

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Chicago Freight Car Leasing Australia	S	115 ●	123	20.50	6,825	18.600	1340	No. 311
	T	100	69	17.30	3,410	13.400	710	No's. 369, 376, 377.

Note ● Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.



RAIL OPERATORS ROLLINGSTOCK

ONE RAIL AUSTRALIA

FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
AHAY	Grain Hopper	80	24.0	68.00 ≠		15.500	1435	No	CGAY		Pneumatic Discharge Standard Gauge Only Nos 850 – 895, 897 – 930
AHGX	Grain Hopper	80	21.4	56		14.580	1600 1435	Yes	SHBX		Ground operated lids & automatic discharge doors
AHHF	Grain Hopper	80	26.5	49.5 ◆		15.420	1435		AHHH, AHHE, AHHY		No's 1-27

Note ◆ Maximum capacity is 49.5 tonnes due to vehicle not to exceed 19 tonne axle limit

Note ≠ Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

ONE RAIL AUSTRALIA

FREIGHT VEHICLES

ON HIRE/LEASE TO ONE RAIL AUSTRALIA

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CGAY	Covered Hopper	110	24.0	76.00 tonnes 68.0 m³ ◆		15.500	1435	No			Pneumatic Discharge Standard Gauge Only (CFCLA)

Note ◆ Maximum capacity is 49.5 tonnes due to vehicle not to exceed 19 tonne axle limit

ONE RAIL AUSTRALIA

TRACK RECORDING VEHICLES

OPERATED BY ONE RAIL AUSTRALIA ON A 'HOOK & PULL' AGREEMENT

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for bogie exchange	Remarks/Restriction
AK	Track Recording Vehicle	115	46	23.900	1435	No	Nos. 2382, 2383, 2384 Air Conditioned, All Steel body, Auto Coupling and 914t draw gear capacity. Vehicle is used for inspecting and ride recording of Standard Gauge Track

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
A	115	121	20.20	4,540	18.500	1680	Nos. 71, 73, 77, 78, 79, 81, 85. Fitted with QTRAC 1000 Adhesion Control System. D77 & 78 Traction Motors fitted & 61:16 Gear Ratios.
AN	110	130.5 @	21.75	10,800	22.025	3030	Nos. 1-9, 11
BL	115	128	21.30	10,230	20.700	2240	Nos. 26–35 Fitted with Super Series traction equipment
C	115 ♣	134 @	22.30	10,130	20.600	2240	Nos. 504, 505 have 6,000 litre fuel capacity
DL	115	122	20.30	8,200	19.700	2240	Nos. 36, 38–50 May operate as per XR class locomotive category. Standard Gauge Only
G	115	128	21.80	9,600	20.700	2240	Nos. 519, 520, 522 524, 525, 527, 528, 537–540, 542. Fitted with Super–Series traction equipment.
	115	128	21.80	9,600	20.700	2610	Nos. 523, 526, 529, 530, 531, 536, 541, 543 Fitted with 16–645F3B Engines. Melbourne to Adelaide maximum tonnage to 1150 tonnes per locomotive.
H	100	81	20.30	3,500	13.400	820	Nos. 1–5 Fitted with Low–Speed Control
NR	115	132 @	22.00	12,500	22.000	2985	Nos. 1, 2, 4–121. May operate as per C class locomotive category. Standard Gauge Only
P	100	77	19.20	3,410	14.600	710	Nos. 19–23 Fitted with auxiliary generator to provide Head End Power
S	115 #	123	20.50	6,820	18.600	1340	Nos. 306, 310
T	100	69	17.30	3,410	13.400	710	Nos. 371, 374, 379, 382, 388, 390, 392, 396
	100	70	17.50	3,500	13.400	820	Nos. 399, 400, 402, 408, 409
V	115 ♣	130 @	22.00	12,000	22.000	2862	No. 544. May operate as per C class locomotive category. Standard Gauge Only
X	115	114	19.00	6,820	18.400	1340	Nos. 36 (Series 1)
	115	116	19.30	6,820	18.400	1490	Nos. 37, 39, 41–44 (Series 2)
	115 ♦	118	19.70	6,820	18.400	1490	Nos. 45–52 (Series 3)
XR	115 ♦	122	20.30	6,820	18.400	2237	Nos. XR550–554 (Series 1) See Note •
XR2	115 ♦	123	20.50	6,820	18.400	2237	Nos. XR555 (Series 1), XR557–559 (Series 2) Fitted with silencer equipment
XR-B	115	126	22.00	6,800	18.591	2237	No. 560 - 562
Y	65	65	17.00	4,550	13.300	450	Nos. 110, 115, 118, 119, 122, 150
	65	65	17.00	4,550	13.300	450	Nos. 152, 157, 165, 169, 171, 174
	100	68	17.00	4,550	13.300	450	No. 151 Fitted with EMD D77 traction motors. Gear Ratio. 59.18 Standard Gauge Only
81	115	129 @	21.50	6,600	21.200	2240	Nos. 8101–8184 May operate as per G class locomotive category Standard Gauge Only
82	110	132 @	22.0	10,000	22.000	2260	Nos. 8201, 8203-8212, 8214-8245, 8248-8258
93	115	134 @	22.33	7,300	22.000	3382	Nos. 9301–9308 May operate as per C class locomotive category Standard Gauge Only

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

DIESEL ELECTRIC LOCOMOTIVES

- Note #** Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.
- Note ♣** Maximum speed 50 km/h when running long end leading. These Locomotives are only permitted to operate on Main Lines from the Short End/Driver End, except for Long End movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.
- Note ♦** Maximum speed 50 km/h when running long end leading. These locomotives are only permitted to operate on Main Lines from the short end, except for long end movements to and from Spencer Street and South Dynon Loco, and Post No.204 at West Tower to South Dynon and return.
- Note •** The following X Class Locomotives are now reclassified as XR Locomotives.
 X38 = XR550 X40 = XR552 X34 = XR554
 X35 = XR551 X33 = XR553 X32 = XR555
- Note @** Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS"

PACIFIC NATIONAL

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO PACIFIC NATIONAL

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Bluescope Steel	Y	65	65	17.00	4,550	13.300	450	No. 148
Southern Shorthaul Railroad	B	115	123	20.50	4,540	18.500	1120	No. 61
	S	115 #	123	20.50	6,820	18.600	1340	No. 317
Seymour Rail Heritage Centre	T	100	69	17.30	3,410	14.700	710	No. 320
	T	100	69	17.30	3,410	13.400	710	Nos. 357, 378
	B	115	123	20.50	4,540	18.500	1120	No. 74
	GM	115	116	19.30	6,825	17.900	1305	No. 36
	S	115 #	123	20.50	6,820	18.600	1340	No. 303
Steamrail Inc.	T	100	69	17.30	3,400	13.400	710	Nos. 356, 364, 395
	S	115 #	123	20.50	6,820	18.600	1340	No. 313
Geelong Rail Preservation Society	T	100	69	17.30	3,400	14.600	710	No. 413
Chicago Freight Car Leasing Australia	B	115	123	20.50	4,540	18.500	1120	Nos. 65
	JL	115	113	18.80	5,540	18.669	1490	Nos. 101–106 Operate on all lines authorised and maximum speeds applicable to G class locomotives. May haul loads applicable to X class locomotives
	EL	115	114	19.00	7,500	20.500	2380	Nos. 51–58, 60–64 May operate as per X class locomotives category. Single ended operation only
	T	100	69	17.30	3,410	14.600	710	No. 345
	T	100	69	17.30	3,410	13.400	710	Nos. 363, 369,377, 385

- Note #** Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
NCFF	Coiled steel	80	21.8	70.2		20.540	1435	No		1116	
NGCX	Hopper (Grain)	80	17	59		12.300	1600 1435	Yes			
NGDX	Hopper (Starch)	80	17	56		14.300	1600 1435	Yes			
NGGF	Hopper (Sugar)	80	21	55♣		14.276	1435	No	NGTY WTY		Standard Gauge Only ♣ see note below
NGIF	Hopper (Grain)	80	20	56		15.056	1435	No	NGWF		Standard Gauge Only Air operated doors
NGKF	Hopper (Grain)	80	21	60		14.276	1435	No	NGTY WTY		Standard Gauge Only Air operated doors
NGPF	Hopper (Grain)	80	21	60		14.276	1435	No	NGTY WTY		Standard Gauge Only. Air operated doors
NGRX	Hopper (Grain)	80	17	56		14.300	1600 1435	Yes			
NGTY	Hopper (Grain)	80	21	55♣		14.276	1435	No			Standard Gauge Only ♣ see note below
NGWF	Hopper (Grain)	80	20	56		15.065	1435	No	NGIF		Standard Gauge Only Air operated doors
NGXH	Hopper (Grain) (three pack)	80	26	50♣		51.820 3 wagons	1435	No	NHXX		Standard Gauge Only. Air operated top & bottom doors ♣ see note below
NLJX	Louvre Van (Pallet loading steel floor)	80	27	49	4000	18.200	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
NOBX	Open	80	22	54	4000	15.000	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
NPRF	Bulk Hopper (Cement)	80	20	58		12.600	1435	No			Pneumatic Discharge
NPRY	Bulk Hopper (Cement)	80	20	58		12.600	1435	No			Pneumatic Discharge
NQCX	Container Flat	80	18	58		14.600	1600 1435	Yes		900	Equipped to convey Clip on Refrigerated Units.
NQDX	Container Flat	80	27	49	4000	23.700	1600 1435	Yes		1175	Equipped with chains for steel traffic. May load to 80 tonnes gross at 80 km/h max speed
NQEX	Container Flat	80	27	49	4000	23.700	1600 1435	Yes		1186	May load to 80 tonnes gross at 80 km/h max speed
NQFF	Container Flat	80	20	72		20.540	1435	No		1116	
NQHX	Container Flat	80	18	62		14.500	1600 1435	Yes		1175	
NQIX	Container Flat	80	18	62		14.600	1600 1435	Yes		1190	
NQJF	Container Flat	80	20	72		20.540	1435	No		1116	
NQOX	Container Flat	80	21	59	4000	20.100	1600 1435	Yes		1118	May load to 80 tonnes gross at 80 km/h max speed
NQRX	Container Flat	80	19	61		17.700	1600 1435	Yes		1181	

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RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
NQTY	Container Flat	80	18.6	61.4		15.100	1435	No		1260	
NQYY	Container Flat	110	24	56		15.100	1435	No		1217	
PQZY	Container Flat	115	22.5	69.5 #		25.730	1435	No		1020	05026-05035
PRRY	Container Flat	110	18	74		15.580	1435	No		1020	5006-5025
RBFX	Box Van	80	30	46	4000	23.700	1600 1435	Yes	ABFX		May load to 80 tonnes gross at 80 km/h max speed
RCBF	Coil Steel	80	21	71		15.100	1435	No		1217	
RCDX	Coil Steel	80	23	57		14.900	1600 1435	Yes	AKEX		
RCEF	Coil Steel	80	21	59		14.883	1435	No		1200	
RCIX	Coil Wire	80	22	58		14.600	1600 1435	Yes	NQIX		
RCJF	Coiled Steel	80	21	55	4000	14.883	1600	No	VQOF	1200	No. 41, 274, 297, 427, 1083, 1107. May load to 80 tonnes gross at 80 km/h max speed
RCJY	Coiled Steel	80	25	67		20.100	1435	No		1060	
RCKF	Coiled Steel	80	22	70		12.287	1435	No		1200	
RCOF	Coiled Rod	80	22.8	57.2		15.100	1435	No		1260	
RCPF	Coiled Steel	80	15	65		11.922	1435	No		1200	
RCQF	Coiled Steel	80	21	71		15.100	1435	No		1200	
RCRX	Coiled Steel	80	25	51	4000	14.600	1600 1435	Yes	NCRX		May load to 80 tonnes gross at 80 km/h max speed
RCSF	Coiled Steel	80	22	70		12.287	1435	No		1200	
REBY	Container Flat	110				15.100	1435	No	RQNY	1255	
	<u>Load</u> Class 1, 2, 3 Class 4, 5 (Track Rating)		17.5 17.5	62.5 58.5							
REIW	Container Flat	115	18.6	61.4		14.600	1435	No	RQIW	1020	
RETY	Container Flat	110	18	58		20.085	1435	No	RQTY	1100	Approved to 19 tonnes axle loads only
RFRX	Container Flat Truck	80	27	49	4000	23.700	1600 1435	Yes	AQRX	1186	May load to 80 tonnes gross at 80 km/h max speed
RHJY	Hopper	110	22	54		11.837	1435	No			
RKAF	Flat – pair	80	46	90.5		29.974	1435	No		1200	Nos. 1-16
RKAX	Rail Flat – pair	80	40.1	111.9		29.200	1435			1230	Nos. 1-6
RKBX	Slab Steel	80	21.2	54.8	4000	14.900	1600 1435	Yes	AKBX		May load to 80 tonnes gross at 80 km/h max speed
RKCX	Bulk Steel	80	23	53	4000	14.900	1600 1435	Yes	VOBX		May load to 80 tonnes gross at 80 km/h max speed
RKCY	Open – Steel	110	24	56		15.064	1435	No		1217	Nos. 20282, 20534
RKDY	Open – Steel	110	26	66		23.724	1435	No		1245	Nos. 14, 2540, 4043
RKEF	Flat – Steel	80	23	69		15.526	1435	No		1200	
RKEX	Slab Steel	80	22	58		14.900	1600 1435	Yes	VKEX		

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RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
RKFX	Slab Steel	80	26	50	4000	17.900	1600 1435	Yes	AKFX		May load to 80 tonnes gross at 80 km/h max speed
RKGF	Open – Steel	80	22	70		15.064	1435	No		1200	
RKHF	Open – Steel	80	22	70		15.064	1435	No		1200	
RKJX	Open – Steel	80	22	58		14.900	1435	No		1200	
RKKY	Flat – 3 wagons	115	51	225		43.500	1435	No		1200	
RKLF	Flat – pair	80	40	112		30.378	1435	No		1170	
RKLX	Open without Ridge Gear	90	20	56	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
RKLY	Flat – Steel	110	19.5	60.5		15.064	1435	No		1217	
RKMY	Container Flat	110	16	64		14.903	1435	No		1200	
RKOX	Bulk Steel	80	27	49	4000	23.700	1600 1435	Yes	AKOX		May load to 80 tonnes gross at 80 km/h max speed
RKPF	Flat – Steel	80	21	71		18.524	1435	No		1022	
RKPX	Coil Wire / plate steel	80	22	58		18.500	1600 1435	Yes	NFPX		
RKQF	Flat – Steel	80	20	72		18.000	1435	No		1024	
RKQX	Coil Wire / plate steel	80	20	56	4000	18.000	1600 1435	Yes	NKQX		May load to 80 tonnes gross at 80 km/h max speed
RKRF	Flat – pair	80	42.4	111.6		30.378	1435	No		1170	Nos. 01661, 01632, 01834, 01603, 01662, 03177, 01775, 01616, 01619, 01635, 03262.
RKSX	Wide Steel Plate	80	25	40		14.600	1600 1435	Yes	NKSX		
RKTF	Open – Steel	80	28	64		23.724	1435	No		1245	
RKTX	Steel Strap	80	28	48	4000	23.800	1600 1435	No			May load to 80 tonnes gross at 80 km/h max speed
RKUX	Slab Steel	80	22	54	4000	14.900	1600 1435	Yes	VKOX		May load to 80 tonnes gross at 80 km/h max speed
RKVY	Tilt Flat	110	25.5	66.5		20.800	1435	No		1145	
RKWY	Open – Steel	110	26	66		23.724	1435	No		1245	
RKXF	Flat – Steel	80	27	65		23.432	1435	No		1200	
RKXX	Slab Steel	80	27	49	4000	23.700	1600 1435	Yes	NKDX		May load to 80 tonnes gross at 80 km/h max speed
RKYY	Tilt Flat	110	23	69		20.798	1435	No		1830	
RLEX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes	VLEX		May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicle
RLLX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicle
RMAX	Car Wagon	80	26	12		23.700	1600 1435	Yes	AMNF		

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FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
ROBX	Open	80	23	53	4000	14.900	1600 1435	Yes	VOBX VOCX VOFX		May load to 80 tonnes gross at 80 km/h max speed
ROJX	Open	80	23	53	4000	14.900	1600 1435	Yes	VOBX VOCX VOFX		May load to 80 tonnes gross at 80 km/h max speed
ROKX	Open	80	28	48	4000	23.700	1600 1435	Yes	AOOX		Vehicles numbered over 2000 may load to 80 tonnes gross at 80 km/h max speed
ROOX	Open	80	28	48	4000	23.700	1600 1435	Yes	AOOX		Vehicles numbered over 2000 may load to 80 tonnes gross at 80 km/h max speed
ROSX	Open	80	23	57		14.900	1600 1435	Yes			
ROZX	Shunting Operations	80	17.2	0		11.300	1600 1435	Yes	NOFF	1233	
RQAY	Container Flat	115	22	58		20.066	1435			1130	
RQBY	Container Flat	115	22	58		20.066	1435			1150	
RQCX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes	AQCX	1111	May load to 80 tonnes gross at 80 km/h max speed
RQCY	Container Flat	110	20	≠ 60		20.085	1435		RQCX	1110	
RQDY	Container Flat	100	24	52	4000	25.730	1600 1435	Yes	AQDW	1022	Superfreighter vehicle. Must not be coupled fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
RQEY	Container Flat – (2 Pack)	115	32	82		25.730	1435			1020	
RQFX	Container Flat (Skeletal)	80	19	57	4000	20.100	1600 1435	Yes	VQFX	1111	May load to 80 tonnes gross at 80 km/h max speed
RQFY	Container Flat	115	22	58		20.066	1435			1111	
RQGY	Container Flat	115	22	58		20.066	1435			1130	
RQHY	Container Flat	115	20	72		19.316	1435			1050	
RQIW	Container Flat	110	18	62		14.580	1435	No		1220	
RQIY	Container Flat	110	20	60		14.580	1435	No		1183	
RQJY	Container Flat – (5 Pack)	115	48	180		64.894	1435			1053	
RQQY	Container Flat – (5 Pack)	115	56	172		77.868	1435			1043	
RQOX	Container Flat	100	24	52	4000	23.700	1600 1435	Yes	WQBX	1194	May load to 80 tonnes gross at 80 km/h max speed
RQRY	Container Flat	110	17.5	58.5		15.918	1435	No		1030	
RQSY	Container Flat	115	22	58		20.066	1435			1130	
RQTY	Container Flat	110	18	66		20.085	1435	No		1100	
RRAY	Container Flat – (5 Pack)	115	53	175		73.113	1435			1040	

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RAIL OPERATORS ROLLINGSTOCK

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FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
RRCY	Container Well – (5 Pack)	115	95	285		94.416	1435			1645	No. 8001 NOTE: Container Well Wagon
RRLX	2 slot container flat	80	16	64		14.900	1600 1435	Yes		1220	
TQCY	Container Flat	100	20	56	4000	20.100	1435	No		1111	May operate at the following load/speed combinations: 19.0 tonnes gross axle load at 100 km/h 19.5 tonnes gross axle load at 90 km/h 20.0 tonnes gross axle load at 80 km/h.
VBBX	Box Van	80	22	56	1000	13.100	1600 1435	Yes			
VBCW	Box Van	80	35	42		23.500	1600 1435	Yes			Must not be coupled to fixed wheel base vehicles
VECX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes		1111	May load to 80 tonnes gross at 80 km/h max speed Electrically equipped
VEDW	Container Flat	110	23	53	4000	25.700	1600 1435	Yes	VQDW	1022	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicle. May load to 80 tonnes gross at 80 km/h max speed. Electrically equipped
VEKX	Container Flat	80	25	51	4000	23.700	1600 1435	Yes		1194	May load to 80 tonnes gross at 80 km/h max speed Electrically equipped
VEOF	Container Flat	80	18.5	57.5		14.900	1600 1435	Yes	VQOF VQOX	1200	Fitted with 415 volt AC power cables for reefer traffic. May load to 80 tonnes gross at 80 km/h max speed
VFCX	Flat with Stanchions	80	23.7	52.3	4000	20.7	1600 1435	Yes	VQLX	1194	May load to 80 tonnes gross at 80 km/h max speed. For Log Traffic only. Not to be loose shunted. When loaded to be Marshalled between wagons with adequate bulkheads.
VFFA	Flat	65	19.1	35		16.100	1600	No			Draft gear limit 3000 tonnes
VFHX	Flat with Bulkhead & Stanchions	80	25.4	50.6	4000	20.700	1600 1435	Yes	VFNX VFPX	1167	May load to 80 tonnes gross at 80 km/h max speed
VFLX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes		1257	

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FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VFTX	Flat with Stanchions	80	22.5	53.5	4000	18.100	1600 1435	Yes	VLEX	1180	May load to 80 tonnes gross at 80 km/h max speed. For Log Traffic only. Not to be loose shunted. When loaded to be marshalled between wagons with adequate bulkheads.
VFWX	Flat with Stanchions	80	26	50	4000	23.700	1600 1435	Yes	VQKX VKKX	1194	May load to 80 tonnes gross at 80 km/h max speed. For Log Traffic only. Not to be loose shunted. When loaded to be Marshalled between wagons with adequate bulkheads.
VHAF	Hopper (Grain)	80	21	55	2000	14.900	1600 1435	Yes	VHGF		Fitted with modified braking and air operated discharge doors
VHBF	Hopper (Grain)	80	21	46		11.840	1600	No	NGMA		
VHCA	Hopper	65	22	51		11.200	1435	No			
VHEF	Hopper	80	22	54		15.600	1600	No			
VHFF	Hopper (Fertiliser)	80	22	54		14.000	1600	No			
VHFX	Hopper (Fertiliser)	80	22	54		13.200	1600 1435	Yes			
VHGF	Hopper (Grain)	80	17	58	2000	14.900	1600 1435	Yes			Nos. 21–100
VHGF	Hopper (Grain)	80	21	55		14.900	1600 1435	Yes			Nos. 101–637
VHGX	Hopper (Grain)	80	17	58	2000	14.900	1600 1435	Yes			Nos. 1–20
VHGY	Hopper (Grain)	80	21	55	4000	14.900	1435	No	VHGF		Standard Gauge Only. May load to 80 tonnes gross at 80 km/h max speed.
VHHF	Hopper (Grain)	80	23	52		15.500	1600	No			
VHHX	Hopper (Grain)	80	23	52		15.500	1600 1435	Yes			Nos. 813–915
VHJA	Hopper (Gypsum)	65	20	53		11.200	1600	No			
VHJX	Hopper Gypsum	80	22	54		13.200	1600 1435	Yes	VHDX		
VHKY	Hopper (Grain)	115 ♦	24.0	76 ♦		15.498	1435	No			Standard Gauge Only ♦ see note on below
VHLY	Hopper (Grain)	110 ♦	23.6	76 ♦		14.900	1435	No	VHGY		Standard Gauge Only ♦ see note on below
VHNY	Hopper (Grain)	110 ♦	24.0	76 ♦		15.53	1435	No	VHEF		Standard Gauge Only ♦ see note on below
VHQF	Hooper	80	20	56		13.200	1600	No			
VHRF	Hopper (Rice)	80	17	58		14.900	1600	No	VHGF		
VHRX	Hopper (Rice)	80	17	58		14.900	1600 1435	Yes	VHGX		
VHSF	Hopper	80	22	54		13.200	1600	No			

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FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VHWA	Hopper (Ballast)	45 (70 when empty)	15	36	500	9.200	1600	No			
VKEX	Slab Steel	80	22	54	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VKKF	Flat	80	26	50		23.700	1600 1435	Yes			
VKKX	Flat (Steel Traffic)	80	25	51		23.700	1600 1435	Yes			
VLBY	Louvre Van	80	21	35.5	1000	11.900	1600	No			
VLCX	Louvre Van	80	22	41	2000	13.100	1600 1435	Yes			
VLCY	Louvre Van	110	22	50		13.100	1600 1435	Yes	VLCX		Draft Gear Limit of 3000 tonnes for trailing load
VLDX	Louvre Van	80	26	50		16.800	1600 1435	Yes			
VLEX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicles
VLEY	Louvre Van	110	26	50		18.100	1435	Yes	VLEX		Superfreighter vehicle
VLNX	Louvre Van (Newsprint)	80	33	43	4000	18.100	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicles
VLRX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes	VLEX VLNX		May load to 80 tonnes gross at 80 km/h Must not be coupled to fixed wheel base vehicles.
VLVX	Louvre Van	80	22	41		13.100	1600 1435	Yes			
VMAP	Car Wagon	115	30			17.900	1600	No			Conveys 6 cars Motorail Traffic
VMBY	Car Wagon	115	25	15		23.100	1600 1435	Yes			Conveys 8–10 cars
VOBX	Open (without Ridge Gear)	80	23	51	6000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VOCX	Open (without Ridge Gear)	80	23	53	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VOFX	Open (with fixed ridge gear)	80	23	53	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VOHX	Open (with fixed ridge gear)	80	23	53	4000	14.900	1600 1435	Yes	VOFX		Modified for gypsum traffic. May load to 80 tonnes gross at 80 km/h max speed

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RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VOJF	Open (Gypsum)	80	23	53		14.900	1600	No			Restricted to Gypsum traffic between Cowangie & Geelong Area unless otherwise authorised
VOJX	Open (Gypsum)	80	16	32		14.900	1600 1435	Yes	ROJX		
VOWA	Open	70	16	32		11.700	1600 1435	No			
VPAX	Bulk Cement	80	26	50		14.100	1600 1435	Yes			Pneumatic Discharge
VPBX	Bulk Cement	80	26	50		14.100	1600 1435	Yes	VPCX		Pneumatic Discharge High Pressure Series
VPCX	Bulk Cement	80	26	50		14.100	1600 1435	Yes			Pneumatic Discharge Low Pressure Series
VPFX	Bulk Flour	80	29	45	1000	16.600	1600 1435	Yes			Pneumatic Discharge
VPLX	Bulk Lime	80	29	45	1000	16.600	1600 1435	Yes			Pneumatic Discharge
VQAW	Articulated 3 Pack Flat	110	37.3	115		41.200	1600 1435	Yes		1060	Superfreighter vehicle Not to be loose shunted
VQCX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes		1111	May load to 80 tonnes gross at 80 km/h max speed
VQCY	Container Flat	110	20	56	4000	20.100	1435	No	VQCX	1111	May load to 20 tonnes axle load at 80 km/h and 19.5 tonnes axle load of 90 km/h and 19 tonnes axle load at 100 km/h
VQDW	Container Flat	110	23	53	4000	25.700	1600 1435	Yes		1022	Superfreighter vehicle. Must not be coupled to Fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
VQGX	Container Flat	80	25	47		23.200	1600 1435	Yes		1194	
VQJY	Container Flat	110	20	56	4000	20.100	1435	No	VQCY	1111	May load to 20 tonnes axle load at 80 km/h and 19.5 tonnes axle load of 90 km/h and 19 tonnes axle load at 100 km/h
VQKX	Container Flat	80	25	51		23.700	1600 1435	Yes		1194	
VQKY	Container Flat	110	25	51	4000	23.700	1600 1435	Yes	VQKX	1194	May load to 20 tonnes axle load at 80 km/h and 19.5 tonnes axle load of 90 km/h and 19 tonnes axle load at 100 km/h
VQLX	Container Flat (Skeletal)	80	22	54	4000	20.700	1600 1435	Yes		1194	May load to 80 tonnes gross at 80 km/h max speed
VQMX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes	VQCX	1111	May load to 80 tonnes gross at 80 km/h max speed

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RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VQMY	Container Flat	110	20	56	4000	20.100	1600 1435	Yes	VQCX	1111	Superfreighter vehicle May load to 80 tonnes gross at 80 km/h max speed
VQOF	Container Flat	80	19.0	57	4000	14.900	1600 1435	Yes		1200	May load to 80 tonnes gross at 80 km/h max speed
VQOX	Open without Ridge Gear	80	21.5	54.5	4000	14.900	1600 1435	Yes		1200	May load to 80 tonnes gross at 80 km/h max speed
VQRF	Container Flat	80	20	56	4000	20.100	1600 1435	Yes		1111	May load to 80 tonnes gross at 80 km/h max speed
VQSW	Container Flat	110	16	60		16.300	1435	Yes		1000	Test Vehicle Only
VQTY	Container Flat	110	20	60		20.085	1435	No	VQCX	1111	
VTBA	Tank (Bitumen)	70	28.3	45,006 litres		12.500	1600	No			
VTBF	Tank Wagon (Bitumen)	80	27	45,461 litres		12.500	1600	No			
VTBX	Tank (Bitumen)	80	31	45,460		12.500	1600 1435	Yes			
VTBY	Tank (Bitumen)	80	31	45,461		12.500	1600	No			
VTGX (Type 1)	Tank Wagon	80	36.6	77,400 litres 38.3 tonnes		16.500	1600 1435	Yes	VTGY		No. 8
VTGX (Type 2)	Tank Wagon	80	34.4	70,900 litres 39.1 tonnes		16.558	1600 1435	Yes	VTGY		Nos. VTGX 7 & 9.
VTQA	Tank (White Spirit)	65 (see note)	28	46,900 litres		14.600	1600	No			VTQA'S Nos. 121, 181, 182, 190, 191, 209, 238, 239, 286, 355, 358, 393, 469, 534, 592, and 595 are authorised to operate at 80 km/h empty and 65 km/h when loaded. Draft Gear Limit 3000 tonnes.
VTQF	Tank	80 (load/ empty)	27	56,400 litres		14.600	1600	No			The following vehicles have a Draft Gear limit of 3000 tonnes: Nos. 84, 86-98, 100-103, 111, 115-122, 131-141, 144, 145, 147-152, 155, 176, 214, 268, 269 and 368.
VTQX	Tank (White Spirit)	80 (load/ empty)	27	54,400 litres		16.400	1600 1435	Yes			
VTQY (Type 1)	Tank	80 (load/ empty)	27	55,917 litres		15.500	1600	No			The following vehicles have a Draft Gear limit of 3000 tonnes: Nos. 84, 86-98, 100-103, 111, 115-122, 131-141, 144, 145, 147-152, 155, 176, 214, 268, 269 and 368.
VTQY (Type 2)	Tank	100 (load/ empty)	27	55,917 litres		15.500	1435	No			Nos 632, 635, 637 & 640 are permitted to run at speeds greater than 100km/h on the ARTC Network on Superfreighter Services.

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RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VTQZ	Tank (White Spirit)	65 # (80 when empty)	28 24.88	39,550 litres		11.800	1600	No			
VTSA	Tank (White Spirit)	80	20.6	32,640 litres		9.246	1600	No	VTQA VTQY		VTSA Nos. 564–572. Only to be used between Shell Corio and Shepparton unless otherwise authorised by V/Line Passenger.
VVBP	Brakevan	90	23	10		11.400	1600	No			
VZAF	Covered Van	80	20	32		12.800	1600	No			
VZGX	Loco. Sand Hopper	80	29	45		16.600	1600 1435	Yes			
VZJF	Open	80	23	53		14.900	1600	No	VOJF		Recorded for Department use
VZKF	Loco. Bogie Transporter	65	18	26		14.500	1600	No	VOJF		Recorded for Department use
VZMA	Hopper (Ballast)	45 (70 when empty)	15	36	500	9.200	1600	No			
VZNA	Hopper (Ballast)	70	14	28	500	10.900	1600	No			
VZSF	Auto Sleeper Discharge	80	22	41		13.100	1600	No			
VZTX	Manual Sleeper Discharge	80 (see remarks)	20	36		13.145	1600 1435	Yes			65 km/h when the uneven net load exceeds 12 tonnes
VZWA	Wheel Transporter	70	18	26		14.500	1600	No			
VZZF	Bogie Transport	80	24	52		18.100	1600	No			
XGAY	Hopper (Grain)	80	24	52♣		16.485	1435	No			Standard Gauge Only. Air operated top & bottom doors ♣ see note on below.

Note ♣ Maximum capacity is restricted due to vehicle not to exceed 19 tonne axle limit

Note ♦ Between Serviceton and Appleton Dock wagon may load to 92 tonnes gross at 80 km/h.
Between Appleton Dock and Albury/NSW wagon may load to 80 tonnes gross at 80 km/h.

Note # Where a train operates with loaded VTQZ vehicles attached, it may operate at 80 km/h provided the ratio of VTQZ vehicles does not exceed 1 (one) loaded VTQZ vehicles to 4 (four) other vehicles, and provided that the loaded VTQZ vehicle(s) is (are) not marshalled as the last two vehicles of the train and there is no other vehicle in the consist that restricts the train speed to less than 80 km/h.

Note ≠ Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

ON HIRE/LEASE TO PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CHEY	Ore Hopper Pair	110	≈ 42.0	≈110.0		≈ 22.40	1435	No		1120	No. 8002 – 8008, No. 8073-8078, 8088, 8093, 8095, 8096, 8100, 8102-8106 Standard Gauge Only ≈ 2 Permanently coupled hopper wagons. (CFCLA)
CHBY	Hopper Pair	115	≈ 46.0	≈106.0		≈ 25.57	1435	No		1100	No. 7050, 7052, 7054, 7067, 7068, 7073, 7074, 7075 Standard Gauge Only ≈ 2 Permanently coupled hopper wagons. (CFCLA)
CQBY	Container Skeletal	80	20	56	4000	19.4	1435	No		1020	Standard Gauge Only. (CFCLA). May load to 80 tonnes gross at 80 km/h max speed
CQGY	Container Flat	115	19.5	≠ 72.5		20.100	1435	No		1020	Nos. 501-575 (CFCLA)
NHBF	Ballast	80	19	61		12.4	1435 1600	Yes			
RQDY	Container Flat	100	23	53	4000	25.730	1600 1435	Yes	AQDW	1022	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
RQJW	Container Flat	115	27	49	4000	25.560	1600 1435	Yes	NQJW	1024	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
RQPW	Container Flat	115	25	51	4000	25.560	1600 1435	Yes	NQMW	1024	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed

Note ♦ Maximum capacity is restricted due to vehicle not to exceed 19 tonne axle limit

Note ≠ Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

PACIFIC NATIONAL

FREIGHT VEHICLES

OPERATED UNDER PACIFIC NATIONAL ACCREDITATION

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CHOY	Ballast Hopper Remote Controlled	80	25	51		13.200	1600/1435	Yes	VZMF GHMF CHMF		Nos 6016 to 6063 (CFCLA)
CZAY	Ballast Plough	80	35	3		13.100	1600/1435	Yes	VLCX		No. 6099 (CFCLA)
WGBY	Covered Hopper	80	≈ 48.0	≠ ≈ 136.0		≈ 32.61	1435	No			No. 1001 – 1084 Standard Gauge Only Air operated hatches & discharged doors. ≈ 2 Permanently coupled grain wagons.
WGSY	Covered Hopper	80	24.0	52.0		16.468	1600/1435	No			No. 2001 – 2090 Air operated hatches & discharged doors.

Note # Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

PACIFIC NATIONAL

TRACK RECORDING VEHICLES

OPERATED BY PACIFIC NATIONAL ON A 'HOOK & PULL' AGREEMENT

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for bogie exchange	Remarks/Restriction
AK	Track Recording Vehicle	115	46	23.900	1435	No	Nos. 2382, 2383, 2384 Air Conditioned, All Steel body, Auto Coupling and 914t draw gear capacity. Vehicle is used for inspecting and ride recording of Standard Gauge Track

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

QUBE LOGISTICS (RAIL) PTY LTD

DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
RL	115	132 @	22.00	8,000	20.022	2611	SG Only. Nos. 303, 309, 310
48	115	71.4	11.90	2,270	14.760	710	SG Only. Nos. 852, 864, 872, 4814, 4816, 4836, 4828
GML	110	129 @	21.50	9,500	20.034	2460	SG Only. No 10
80	115	120.8	20.1	5,400	19.000	1605	SG Only. Nos 8030, 8037, 8044.
G	115	128	21.33	9,600	20.700	2240	BG only. Nos 521, 532
442	115	115.0	19.2	5,500	18.700	1600	SG Only No.44202
QBX	115	134 @	22.3	10,000	22.000	2670	SG Only Nos 001-006
QE	115	134 @	22.3	8,500	22.000	3355	SG Only Nos 001-012
QL	115	134 @	23.0	8,500	22.000	3382	SG Only Nos 001-012
1100	110	134 @	22.3	7,500	19.9	2461	SG Only Nos 1101 – 1108

Note @ Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS".

QUBE LOGISTICS (RAIL) PTY LTD

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO QUBE LOGISTICS (RAIL)

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Ettamogah Rail Hub	Y	65	65	17.00	4,550	13.300	450	No. 119.
Manildra	T	100	69	17.30	3,410	13.400	710	No's. 388, 399, 402.
Rail First	G	115	132	21.80	10,230	20.700	2240	No. 511 , 512. Fitted with Super-Series traction equipment.
	G	115	128	21.33	9,600	20.700	2240	No. 515
	C	115 ♣	134 @	22.30	10,130	20.600	2240	No. 502, 504, 508, 510. Standard Gauge Only
	EL	115	114	19.0	7,500	20.500	2380	Nos. 51 – 58, 60 – 64. May operate as per X Class locomotives category. Single ended operation only. Standard Gauge Only
	GL	112	132 @	22.00	7,500	18.700	2460	No. 101, 103, 104, 105,106,107.109,110. May operate as per C class locomotive category. Standard Gauge Only
	VL	115	^127.5	^21.25	^4,200	18.300	2460	Nos. 351, 353, 356, 357, 360 ^May operate as per G class locomotive category with fuel limiting system to 4200 litres
	VL	115	132 @	22.00	9,220	18.300	2460	No. 351 – 362 May operate as per C class locomotive category. Standard Gauge Only
	CM	115	134.2 @	22.36	10,000	20.218	2475	3301-3316 Standard Gauge Only
	CF	115	134.0 @	22.33	7,300	22.000	3355	4409, 4410, 4411, 4412
	T	100	69	17.30	3,410	13.400	710	No's. 373, 376, 377
Rail Power	CLF	115	128	21.33	9600	20.500	2240	No's. 2, 4. May operate as per G Class locomotive category.
Steamrail Victoria	S	115 #	123	20.50	6,820	18.600	1340	No. 313
	T	100	69	17.30	3,410	13.400	710	No. 356, 364, 395
Seven O Seven	T	100	69	17.30	3,410	13.400	710	No. 413

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RAIL OPERATORS ROLLINGSTOCK

Seymour Railway Heritage Centre	X	115	114	19.00	6,820	18.400	1340	Nos. 31 (Series 1)
	S	115 #	123	20.50	6,820	18.600	1340	No. 303 Single end operation only
	B	115	123	20.50	4,540	18.500	1120	No. 74
	C	115 II	134 @	22.30	10,130	20.600	2240	No. 501
Gemco Rail	RL	115	132 @	22.00	8,000	20.022	2611	Nos. 301, 302, 304, 305, 306

Note # Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

Note ♣ Maximum speed 50 km/h when running long end leading. These Locomotives are only permitted to operate on Main Lines from the Short End/Driver End, except for Long End movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

Note II Maximum speed 50 km/h when running long end leading. These Locomotives are only permitted to operate on Main Lines from the Short End/Driver End, except for Long End movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

Note @ Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS".

QUBE LOGISTICS (RAIL) PTY LTD

FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
NCFF	Coiled steel	80	21.8	≠ 70.2		20.540	1435	No		1116	Nos. 21493, 21498, 21502, 21508, 21509, 21518, 21557, 21571, 21605, 21612, 21620, 21630, 21637, 21639, 21641.
RCBF	Coil Steel	80	21	≠ 71		15.100	1435	No		1217	Nos. 20213, 20216, 20245, 20267, 20336, 20342, 20371, 20423, 20426, 20433, 20442, 20447, 20503, 20818, 20945.
RCIX	Coil Wire	80	22	58		14.600	1600 1435	Yes	NQIX		Nos. 14512, 14526, 14816, 14823, 22103, 22126, 22134, 22161.

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RAIL OPERATORS ROLLINGSTOCK

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
RCJF	Coiled Steel	80	21	55	4000	14.883	1600	No	VQOF	1200	Nos. 00027, 00032, 00041, 00044, 00045, 00058, 00075, 00090, 00091, 00102, 00103, 00105, 00121, 00123, 00124, 00151, 00167, 00172, 00189, 00203, 00205, 00225, 00232, 00241, 00243, 00246, 00247, 00250, 00259, 00269, 00274, 00288, 00297, 00300, 00306, 00323, 00330, 00333, 00352, 00382, 00389, 00409, 00410, 00413, 00427, 00428, 00431, 00444, 00453, 01012, 01023, 01026, 01031, 01033, 01071, 01083, 01092, 01103, 01107, 01119, 01128, 01131, 01137, 01148, 01156, 01164. May load to 80 tonnes gross at 80 km/h max speed
RCKF	Coiled Steel	80	22	≠ 70		12.287	1435	No		1200	Nos. 00001, 00002, 00005, 00009, 00011, 00018, 00020, 00022, 00023, 00028, 00031, 00032, 00033, 00037, 00039, 00043, 00045, 00050, 00051, 00060, 00061, 00063, 00066, 00067, 00070, 00071, 00072, 00074, 00076, 00077, 00078, 00084, 00087.
RCPF	Coiled Steel	80	15	65		11.922	1435	No		1200	Nos. 31820, 31823, 31831, 31838, 31842, 31857, 31865, 31883.
RCQF	Coiled Steel	80	21	≠ 71		15.100	1435	No		1200	Nos. 20237, 20318, 20354, 20369, 20382, 20390, 20432, 20485, 20528, 20531, 20545, 20603, 20606, 20807, 20832, 20842, 20848, 20862, 20872, 20877, 20908, 20988.
RCSF	Coiled Steel	80	22	≠ 70		12.287	1435	No		1200	Nos. 00006, 00010, 00014, 00019, 00027, 00029, 00030, 00036, 00041, 00042, 00046, 00052, 00054, 00057, 00059, 00065, 00069, 00079, 00083, 00085, 00088, 00089, 00090.
RKJX	Open – Steel	80	22	58		14.900	1435	No		1200	Nos. 00008, 00014, 00015, 00026, 00083, 00114, 00175.

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Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
RKPF	Flat – Steel	80	21	≠ 71		18.524	1435	No		1022	Nos. 30307, 30311, 30313, 30314, 30315, 30317, 30318, 30319, 30323, 30324, 30325, 30326.
RKQF	Flat – Steel	80	20	≠ 72		18.000	1435	No		1024	Nos. 60226, 60228, 60229, 60231, 60233, 60234, 60235, 60236, 60237, 60238, 60240, 60242, 60243, 60247, 60248, 60249, 60250, 60253, 60254, 60255, 60256, 60257, 60258, 60259, 60260, 60263, 60265, 60267, 60269, 60270, 60271, 60272, 60273, 60274, 60420, 60424, 60426.
RKXF	Flat – Steel	80	27	≠ 65		23.432	1435	No		1200	Nos. 60094, 60116, 60142, 60152, 60205, 60213, 60223.
RKYY	Tilt Flat	110	23	≠ 69		20.798	1435	No		1830	Nos. 07006, 07084, 07085, 07086, 07087, 07088, 07089, 07090, 07091, 07092, 07093, 07094, 07095, 07096, 07097, 07098, 07099, 07100, 07101, 07102, 07103, 07104, 07105, 07106, 07107, 07108, 07109, 07110.
RQTY	Container Flat	110	18	≠ 66		20.085	1435	No		1100	No. 00011.
SQDY	Container Flat	80	15.9	≠ 76.1		14.700	1435	No		1055	00001 – 00109
SQEF	Container Flat	80	τ 24	τ 52	τ 4000	25.730	1600/ 1435	Yes		1020	τ Nos. 1-7, 9-16, 18, 20, 21, 23, 24, 27-33, 35-42, 44-50 May load to 80 tonnes gross at 80 km/h max speed.
SQEY	Container Flat	115	23	53	4000	25.730	1435	No		1020	Nos. 8, 17, 19, 22, 25, 26, 34, 43 and 0051-0090 May load to 80 tonnes gross at 80 km/h max speed. Standard Gauge Only
SQSF	Container Flat	80	16.5	≠ 64.5.	-	13.540	1600	Yes		1020	Nos. 5001 - 5034
SQSY	Container Flat	110	16.0	≠ 76	-	13.600	1435	-		1020	Nos. 0001 - 0375
SQTY	3 Pack Articulated Skeletal Wagon	115	38.8	≠ 115.2	-	46.900	1435	No		1040	Nos. 00001 – 00106.
TQYY	Container Wagon	80	23	≠ 69		19.444	1435	No		1040	Nos. 10101, 10102, 10103. May load to 23 tonnes only on approved lines, refer Network Operating Requirements. Standard Gauge Only
TQXF	Container Flat	80	16.4	≠ 59.6		13.155	1600	Yes		1040	10001 – 10018
TQXF	Container Flat	80	16.4	≠ 75.6		13.155	1435	Yes		1040	10001 – 10018

NETWORK SERVICE PLAN



Network Service Plan - Addenda

NA_NSP_03 – R06-2024

RAIL OPERATORS ROLLINGSTOCK

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
WGBY	Covered Hopper	80	≈48.0	≠ ≈ 136.0		≈ 32.61	1600	No			Nos. 1057, 1058, 1063, 1064 Air operated hatches & discharged doors. ≈ 2 Permanently coupled grain wagons.
WGSY	Covered Hopper	80	24.0	52.0		16.468	1600 1435	No			Nos 2001 – 2007, 2009-2013, 2015 – 2020, 2023-2035, 2037-2042. Air operated hatches & discharged doors.
VQOF	Container Flat	80	19.0	57	4000	14.900	1600 1435	Yes		1200	Nos. 00017, 00147, 00152, 00283, 01079. May load to 80 tonnes gross at 80 km/h max speed

Note 1 May load excess of 80 tonnes under the exception to Permissible Overload Provisions as outlined on page 6 of the Network Operating Requirements.

Note 1 # Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'



RAIL OPERATORS ROLLINGSTOCK

QUBE LOGISTICS (RAIL) PTY LTD

FREIGHT VEHICLES

ON HIRE/LEASE TO QUBE LOGISTICS (RAIL)

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
ADFF	Ballast Hopper	80	20	54	N/A	11.900	1435	No	NDFP	N/A	Nos. 2213, 2215, 2219, 2220, 2223, 2229, 2230, 2232, 2241, 2244, 2247, 2251, 2256, 2258, 2260, 2261, 2265, 2269, 2975, 2979, 2987. (ARTC)
AQCY	Container Flat	110	22	54		20.093	1435	No	WQCY WQTY	1194	(G&WA) Standard Gauge Only
AFGF	Container Flat	80	16.5	59.5		15.189	1600 1435	Yes	AFCL AZCL RGC AOGL	1170.	Nos. 1630, 1657, 1665, 1769. (G&W)
BQCX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes	CFLX VFLX GFLX SFX	1257	No. 2201, 2202 (CRL)
CFLX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes	GFLX VFLX	1257	No. 18, 99 (CFCLA)
CFSX	Auto Sleeper Discharge	80	22	41		13.100	1600 1435	Yes	VZSX GFSX		Nos. 125 (CFCLA)
CGDY	Covered Hopper	100	22.7	53.3		15.498	1600 1435	Yes			Nos. 4001 to 4042 Ground operated lids & automatic discharge. (CLCFA)
CGSY	Covered Hopper	110	22.5	69.5		15.494	1435	No			Nos. 4501-4542 (CF) Loaded to 80t gross max at Somerton Yard
CHAY	Ballast Hopper Remote Controlled	80	46 23 per platform	≈ ≠ 114		25.600	1435	No		1130	Nos. 7004, 7008, 7026, 7028, 7029, 7073 (CFCLA) NOTE: 20 tonne axle load ≈ 2 Permanently coupled hoppers
CHOY	Ballast Hopper Remote Controlled	80 (90 when empty)	25	51		13.200	1600 1435	Yes	VZMF GHMF CHMF		Nos. 6016, 6019-28, 6031, 6045-47 (CFCLA)
CHOY	Ballast Hopper Remote Controlled	80	25	≠ 51	500	13.200	1435	Yes	VHMF GHMF CHMF	1100	Nos. 6048-6053 (CFCLA) NOTE: 20 tonne axle load
CHTY	Ballast Hopper Remote Controlled	80	23	≠ 57		11.600	1435	Yes	CHQY	1100	Nos. 735, 742 (CFCLA) NOTE: 20 tonne axle load
CQBY	Container Flat	115	20.2	67.8		19.350	1435 1600			1020	(CF) Broad Gauge – 0101V 0102H 0118A 0128X 0131W 0132X
CQCY	Container Flat (can also be used to carry rail)	100	18.0	58		14.691	1600 1435	Yes	NDRF	1130	Nos. 1-10 (CFCLA)
CQGY	Container Flat	115	19.5	≠ 72.5		20.100	1435	No		1020	Nos. 502-515, 517-575 (CFCLA)

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

QUBE LOGISTICS (RAIL) PTY LTD

FREIGHT VEHICLES

ON HIRE/LEASE TO QUBE LOGISTICS (RAIL)

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CQKY	Container Flat	115	15.7	≠ 72.3		14.600	1435	No		1020	Nos. 1001-1026, 1028-1051 (CFCLA)
CQMY	Container Flat	115	22	54		25.730	1435			995	No. 3001 - 3101 Standard Gauge Only (CFCLA)
CQRX	Container Flat (can also be used to carry rail)	80	25	51	4000	23.700	1600 1435	Yes	VZRF GQRX	1194	No. 303, 305, 308 May load to 80 tonnes at 80 km/h max speed (CFCLA)
CQQY	Container Wagon	115	23	53		23.749	1435	No	AOOX	1185	No. 2801-2850 Standard Gauge Only (CFCLA)
CQXY	Paired Container Flat	80	≈ 35.4	≈ ≠ 132.6		≈ 28.251	1600	No		1158	No. 1501-1575 (CFCLA) ≈ 2 Permanently coupled container flats
CQZY	Container Flat	115	16.6	≠ 75.4		13.400	1435	Yes		1020	Nos. 1601 – 1700 (CFCLA)
NDPF	Ballast Plough	80	24	N/A		12.500	1435			N/A	Nos. 2000, 2001 (ARTC)
PHAY	Bulk Wagon	80	20.0	64.0		20.000	1600	No		N/A	1018, 1025, 1091, 1093, 1111, 1118, 1143, 1153, 1205, 1207, 1211, 1214, 1220 (CRLC)
PHBY	Bulk Wagon	80	20.0	≠ 64.0		10.000	1600			N/A	01118-B (CRLC)
TQYF	Container Flat	80	18.5	61.5		19.444	1600	Yes		1040	10101 - 10103
WGSY	Covered Hopper	80	24.0	52.0		16.468	1600 1435	No			Nos. 2008, 2014, 2021, 2022, 2036, 2043 – 2090 Air operated hatches & discharged doors. (CARGILL)
ZQKX	Container Flat	80	25	51		23.700	1600 1435	Yes	GQKX VFKX SKX	1194	No. 59 (Masked Fox Leasing P/L)
ZQRX	Container Flat	80	25	51		23.700	1600 1435	Yes	GQKX VFKX SKX	1194	No. 302, 303, 308 (Masked Fox Leasing P/L)

Note 1 ≠ Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

TRACK RECORDING VEHICLES

OPERATED BY QUBE ON A 'HOOK & PULL' AGREEMENT

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for bogie exchange	Remarks/Restriction
EV	Inspection Car	120	47	21.550	1600	No	No. 120 Infrastructure Evaluation Vehicle. Pantographs fitted. (Metro Trains Melbourne)

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

SOUTHERN SHORTHHAUL RAILROAD

DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
A	115	121	20.20	4,540	18.500	1680	No. 70.
B	115	123	20.50	4,540	18.500	1120	Nos. 61, 65, 75, 76, 80.
T	100	69	17.30	3,400	13.400	710	Nos. 363, 381, 385, 386
P	100	77	19.20	3,410	14.600	710	Nos. 11, 14, 16, 17, 18. Fitted with auxiliary generator to provide Head End Power.
S	115 #	123	20.50	6,820	18.600	1340	Nos. 302, 311, 312, 317
C	115 II	134	22.30	10,130	20.600	2240	Nos.502-510 504, 505 have 6,000 litre fuel capacity
G	115	128	21.80	9,600	20.700	2240	Nos. 513, 514 Fitted with Super Series traction equipment
BRM	115	128	21.25	5,000	18.300	2460	Nos. 001, 002. NOTE: Must not exceed 5000 litres fuel on the V/Line Network. May operate as per G class locomotive category with fuel capacity limited to 5000 litres.
GM	115	116	19.30	6,825	17.900	1305	Nos. 10, 22, 27
RL	115	132 @	22.00	8,000	20.022	2611	Nos. 301, 302, 304-307
45	115	112.0	18.7	5,500	17.880	1450	No. 4532 May operate as per X Class locomotive category.
48	115	71.4	11.90	2,270	14.760	710	Nos. 48S28, 48S33-48S36, 869 May operate as per T Class locomotive category.
49	100	81.0	13.5	3,140	15.400	710	Nos. 4904, 4908, 4910, 4911, 4917 May operate as per T Class locomotive category.
442	115	115.0	19.2	5,500	18.700	1600	Nos.44204, 44206, 442S1, 442S2, 442S5, 442S6
80	115	120.8	20.1	5,400	19.000	1605	No 8049
600	115	112.0	18.7	5,500	17.880	1450	Nos. 602, 603. May operate as per X Class locomotive category.
CLF	115	128	21.33	9600	20.500	2240	Nos. 1, 3. May operate as per G Class locomotive category.
CLP	115	131.9 @	22.00	9600	20.498	2240	Nos. 9, 12. Single ended. May operate as per 81 class locomotive category with fuel capacity limited to 6000 litres. Standard Gauge Only
L	80	134 @	22.30	4,500	20.220	2240	No. 277 May operate as per 'C' class locomotive category. Standard Gauge Only

Note @ Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS"

OPERATING UNDER SSR ACCREDITATION – TRANSFER MOVEMENTS

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Pacific National	G	115	128	21.80	9,600	20.700	2610	Nos. 522, 524, 525, 527, 528, 529, 531, 536, 539, 541, 542, 543
	BL	115	128	21.30	10,230	20.700	2240	Nos. 29, 32, 34
	XR	115	123	20.50	6,820	18.400	2237	Nos. 550-555, 557-559
	X	115	116	19.30	6,820	18.400	1490	Nos. 41, 43, 44 (Series 2)
	X	115	118	19.70	6,820	18.400	1490	No. 48 (Series 3)
	H	100	81	20.30	3,500	13.400	820	No. 1
	T	100	70	17.50	3,500	13.400	820	No. 400
	P	100	77	19.20	3,410	14.600	710	No. 20
	A	115	121	20.20	4,540	18.500	1680	Nos. 71, 73, 77, 78, 79, 81, 85. Fitted with QTRAC 1000 Adhesion Control System. D77 & 78 Traction Motors fitted & 61:16 Gear Ratios.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

ON HIRE/LEASE TO SSR

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Chumrail	421	115	110	18.33	5,500	18.600	1340	No's. 42103 and 42105. Route and Load availability as per S Class Locomotive Category.
Ettamogah Rail Hub	H	100	81	20.30	3,500	13.400	820	No. 1
	Y	65	65	17.00	4,550	13.300	450	No's. 119, 124, 142, 147, 152, 157.
Junee Railway Workshops	48	100	71.4	11.90	2,270	14.760	710	SG Only. Nos. 852, 4814, 4816, 4836. Standard Gauge Only
Manildra	T	100	69	17.30	3,410	13.400	710	No's. 388, 399, 402.
National Railway Equipment Company	1200	115	114	19.00	5,000	20.000	2400	No's. 1201, 1202. NOTE: Route availability as per X Class Locomotive Category. Load availability as per modified A class Locomotive Category.
Rail First	EL	115	114	19.0	7,500	20.500	2380	Nos. 51 – 58, 60 – 64. May operate as per X Class locomotives category. Single ended operation only. Standard Gauge Only
	G	115	132	21.80	10,230	20.700	2240	No. 512. Fitted with Super-Series traction equipment.
	G	115	128	21.33	9,600	20.700	2240	No. 515
	VL	115	[^] 127.5	[^] 21.25	[^] 4,200	18.300	2460	Nos. 353, 356, 360 [^] May operate as per G class locomotive category with fuel limiting system to 4200 litres
	VL	115	132 @	22.00	9,000	18.300	2460	No. 351 – 362 @ May operate as per C class locomotive category limited to 9,000 litres fuel. [^] May operate as per G class locomotive category limited to 5,000 litres fuel. Standard Gauge Only
			[^] 128		[^] 5,000			
Rail Power	CLF	115	128	21.33	9600	20.500	2240	No's. 2, 4. May operate as per G Class locomotive category.
SCT	T	100	69	17.30	3,400	13.400	710	No. 414.
Seven O Seven Operations	T	100	69	17.30	3,410	13.400	710	No. 387
	T	100	69	17.30	3,410	14.700	710	No. 413.
Seymour Railway Heritage Centre	B	115	123	20.50	4,540	18.500	1120	No. 74
	C	115 ^{II}	134 @	22.30	10,130	20.600	2240	No. 501.
	P	100	77	19.20	3,410	14.600	710	Nos. 22, 23.
	S	115 #	123	20.50	6,820	18.600	1340	No. 303 Single end operation only
	T	100	69	17.30	3,410	14.600	710	Nos. 357, 378, 382.
	X	115	114	19.00	6,820	18.400	1340	Nos. 31 (Series 1)
Steamrail Victoria	S	115 #	123	20.50	6,820	18.600	1340	No. 313.
	T	100	69	17.30	3,410	13.400	710	Nos. 356, 364, 395.
	Y	65	65	17.00	4,550	13.300	450	No. 164.
V/Line	N	130	128	21.30	6800	20.000	1680	Nos. 455, 463, 464, 466
Watco Australia	H	100	81	20.30	3,500	13.400	820	Nos. 1, 2, 3, 5. Fitted with Low-Speed Control

Note II Maximum speed 50km/h when running long end leading. This locomotive is permitted to operate on main lines from the short end, except for long end movements between Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

Note # Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

Note @ Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS"

SOUTHERN SHORTHHAUL RAILROAD

TRACK RECORDING VEHICLES

OPERATED BY SOUTHERN SHORTHHAUL RAILROAD ON A 'HOOK & PULL' AGREEMENT

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for bogie exchange	Remarks/Restriction
AK	Track Recording Vehicle	115	46	23.900	1435	No	Nos. 2382, 2383, 2384 Air Conditioned, All Steel body, Auto Coupling and 914t draw gear capacity. Vehicle is used for inspecting and ride recording of Standard Gauge Track
EV	Inspection Car	120	47	21.550	1600	No	No. 120 Infrastructure Evaluation Vehicle. Pantographs fitted. (Metro Trains Melbourne)

SOUTHERN SHORTHHAUL RAILROAD

SUBURBAN ELECTRIC TRAINS

OPERATING UNDER SSR ACCREDITATION – TRANSFER MOVEMENTS

Class and Description of Vehicle	Max Speed Km/h	Mass Rating (Tonnes)	Passenger Seating	Length of Vehicle metres	Number of Vehicles Vehicle Numbers	Remarks / Restrictions
COMENG TYPE						
M Motor Car	80	50.6	N/A	24.000	<u>301M – 698M</u>	Air Braked Hauled as 3 or 6 Car Sets. Max Hauled Speed 80 km/h
T Trailer Car	80	34.7	N/A	23.200	<u>1001T – 1199T</u>	Air Braked Hauled as 3 or 6 Car Sets. Max Hauled Speed 80 km/h

RAIL OPERATORS ROLLINGSTOCK

SOUTHERN SHORThAUL RAILROAD

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
AFGF	Container Flat	80	16.5	59.5		15.189	1600 1435	Yes	AFCL AZCL RGC AOGL	1170.	No 3, 13, 17-19, 35, 39, 46, 49, 1627, 1639
BGGX	Grain Hopper	80	21	55 ≠		14.900	1600		VHGF		Nos. 1091-1099
BGKF	Grain Hopper	100	26	66		16.890	1435				Nos. 1101-1232
BGKF	Grain Hopper	80	24	56 ≠		16.890	1600		NHKF NHJF	1150	Nos. 1111, 1113, 1122, 1136, 1147, 1148, 1152-1158, 1166, 1171, 1185-1189, 1194, 1196, 1215, 1231-1242
BGSY	Grain Hopper	115	24.0	68.0		16.468	1435	No			Nos. 1001 – 1045
BGSY	Grain Hopper	80	24.0	52.0 ≠		16.468	1600		WGSY		No. 1045 Air operated hatches & discharged doors.
BGTY	Grain Hopper	80	22.2	≠ 69.8		15.494	1435	Yes			Nos. 1401-1442
BGUY	Grain Hopper Wagon	80	46.2 (per pair)	≠ 137.8 (per pair)	N/A	30.800 (per pair)	1435	No	-	1092	Nos. 1501– 1578 Standard Gauge Only
BGVF	Grain Hopper	80	25.0	≠ 67.0		17.100	1435	Yes	NHVF		Nos. 1301-1338
BHBF	Grain Hopper	80	21	46		11.840	1600		VHGF ZHBF		No. 1090
BHGX	Grain Hopper	80	21	55 ≠		14.900	1600		VHGF		Nos. 1091-1099
BHGX	Grain Hopper	115	21	55		14.900	1435		VHGF		Nos. 1093–1099
BHGY	Grain Hopper	115	21	55		14.900	1435		VHGF		Nos. 1091-1092
BODX	Open	80	21	55	4000	14.903	1600 1435	Yes	VOHX, VOFX, ELX	1200	No. 2301, 2450, 2456, 2460 May be load to 80 tonnes gross at 80 km/h max speed.
BOJX	Open Wagon	80	18.7	45		13.900	1600	No	ZOAF		2471
BQAY	Skeletal 40ft Container Wagon	80	16	60		13.100	1435	No		1055	Nos. 2001 – 2030 Standard Gauge Only
BQBY	Skeletal 40ft Container Wagon	80	16	60		13.400	1435	No		1045	Nos. 2101 – 2105 Standard Gauge Only
BQCX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes		1257	No. 2411, 2412, 2413
BQEW	Articulated 3 Pack Flat	115	38	114		41.226	1600 1435	Yes	RQUY VQEW	1060	No. 2401, 2402 (SSR)
BQGX	Container Flat/Railset	80	25	51		23.7	1600 1435	Yes	ZQKX ZQRX CQRX	1194	No. 2431 - 2447
BQHX	Cont Flat	90	17	50		13.900	1600 1435	Yes	ZEBX	1186	No. 2441 - 2450

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

SOUTHERN SHORThAUL RAILROAD

FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
BQIX	Container Flat	80	19.0	57	4000	14.900	1600 1435	Yes		1200	No. 2451 – 2470. May load to 80 tonnes gross at 80 km/h max speed
BQIY	Container Flat	80	16.7	≠ 67.3		14.580	1600	No	CQIY	1195	Nos. 2471-2478
BQJX	Container Flat	80	16.5	59.5		15.189	1600 1435	Yes	AFCL AZCL RGC AOGL AFGF	1170	Nos. 2481-2495
BQOX	Container Flat/Railset	80	25	51	4000	23.750	1600	Yes	AQOY CQOY	1194	Nos. 2448-2450 May load to 80 tonnes at 80 km/h max speed
BQPX	Container Flat	80	25	51		23.750	1600 1435	Yes	AOOX AOSX AOLX AZOY AOOY AQPY	1245	Nos. 2301-2324
BVDY	Van-Crew/Power	100	23	10		12.600	1600 1435	Yes	ZVDY		Nos. 51, 52
CFSX	Auto Sleeper Discharge	80	22	41		13.100	1600 1435	Yes	VZSX GFSX		Nos. 125
CHOY	Ballast Hopper Remote Controlled	80	25	51		13.200	1600 1435	Yes	VZMF GHMF CHMF		Nos. 6016, 6019-28, 6031, 6045-52
CHTY	Ballast Hopper Remote Controlled	80	23	≠ 57		11.600	1600 1435	Yes	CHQY	1100	Nos. 735, 742 NOTE: 20 tonne axle load
CQIY	Container Flat	80	16.7	≠ 67.3		14.580	1600	No		1195	No. 601-608
CQOY	Container Flat	80	25	51	4000	23.750	1600	Yes	AQOY	1194	Nos. 2197, 2219, 2393 May load to 80 tonnes at 80 km/h max speed
CQRX	Container Flat (can also be used to carry rail)	80	25	51	4000	23.700	1600	Yes	VZRF GQRX	1194	Nos. 302, 304, 306, 309, 315, 317. May load to 80 tonnes at 80 km/h max speed.
KGBY	Grain Wagon	80	39	113 ≠ 145 ≠		31.000	1435	No			Nos. 0001 and 0002 Permanently coupled two pack. Max 152t gross all corridors except Geelong Grain Loop, approved to 184t.
TQYF	Container Flat	80	18.5	61.5		19.444	1600	Yes		1040	10101 - 10103

Note 1 ≠ Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

SOUTHERN SHORThAUL RAILROAD

FREIGHT VEHICLES

ON HIRE/LEASE TO SSR

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100m	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
ADSF	Concrete Sleeper Wagon	80	18.6	57.4		14.600	1435	No	NDAF	1200	Nos. 2401, 2402, 2403, 2404, 2405, 2406, 2408, 2409, 2410, 2412, 2423. (ARTC)
AZCF	Rail Wagon	80 – empty 65 – loaded < - >	20.3	56		15.200	1435	No	RGC	1170	No. 1768 (ARTC)
AZCL	Rail Wagon	80 – empty 65 – loaded < - >	20.3	56		15.200	1435	No	RGC	1170	No. 1840 (ARTC)
AZRL	Rail Wagon	80 – empty 65 – loaded < - >	19.2	57.1		15.200	1435	No	RGD	1170	Nos. 1645, 1646, 1672, 1758, 1765, 1781, 1839, 1841, 3173. (ARTC)
AZRF	Rail Wagon	80 – empty 65 – loaded < - >	19.2	57.1		15.200	1435	No	RGD	1170	Nos. 1595, 1610, 1611, 1618, 1686, 1691, 1766, 1770, 1842, 3174, 3176. (ARTC)
AZRL	Rail Wagon	80 – empty 65 – loaded < - >	17.3	45.7		14.300	1435	No	RGB	1169	Nos. 21004, 21014. (ARTC)
CFCF	Flat Rail Threader Wagon	80	24	10		13.970	1600 1435	Yes	VZCA	1186	No. 1 (CFCLA)
CGGY	Grain Hopper	80	46.8 23.4 per platform	≈ ≠ 105.2		25.600	1600	Yes	CHBY CHAY	1100	No. 7002 (-1, -2) (CFCLA) ≈ 2 Permanently coupled hoppers
CQCY	Container Flat (can also be used to carry rail)	100	18.0	58		14.691	1600 1435	Yes	NDRF	1130	Nos. 1-10 (CFCLA)
CQRX	Container Flat (can also be used to carry rail)	90	25	51	4000	23.700	1600 1435	Yes	VZRF GQRX	1194	Nos. 310- 314, 318-319. May load to 80 tonnes at 80 km/h max speed (CFCLA)
NDRF	Container Flat (can also be used to carry rail)	80	18.0	58		14.691	1435	Yes	CQCY	1130	Nos. 1918, 1951, 1959, 1967, 1972, 1976, 2305, 2321, 2323, 2327, 2330, 2331, 2333, 2334, 2337, 2340. (ARTC)

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

SOUTHERN SHORThAUL RAILROAD

FREIGHT VEHICLES

ON HIRE/LEASE TO SSR

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100m	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
NDRF	Container Flat (can also be used to carry rail)	80	18.0	58		14.691	1435	Yes	CQCY	1130	Nos. 1965, 1969, 1973, 2301, 2303, 2304, 2306, 2318, 2328, 2332, 2335, 2336, 2338, 2341, 2342, 2347 (VAE)

Note 1 # Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

Note 2 < - > Train Operator to be aware wagons may only travel at ½ signed curve speed when loaded per Owner conditions.



RAIL OPERATORS ROLLINGSTOCK

SPENO RAIL MAINTENANCE AUSTRALIA

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)
24 Stone Rail Grinder Ω	M30	Speno 'RR24M' Series Rail Grinder	44.9	15	60	60
Rail Grinder α	N/A	Speno "RR24MT2A" Series Rail Grinder 1 x Locomotive and 3 x Wagons	45.8	155.340	50	50

Note Ω This machine is not insulated and will operate Track Circuits. The Rules and Operating Procedures (1994) Section 30 Part 14 to Part 29 must be observed during the operation of this machine.

Note α Operates in closed work site only after site specific risk assessment.

TAYLOR RAIL AUSTRALIA

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge/Remarks/Restrictions
Ballast Tamper	TRA-JAX-002	Harsco Jackson Tamper	15.9	32.5	40	N/A	BG/SG
Ballast Regulator	TRA-REG-003	Kershaw Regulator	10.5	20.0	40	N/A	BG/SG
Compactor	Z025/408	Tamper CSC	7.0	12.4	40	N/A	BG/SG McConnell Dowell

THE RAIL MOTOR SOCIETY INCORPORATED

HERITAGE DIESEL RAIL CARS

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
NPF 620	115	43	10.75	1,200	19.400	186	Rail Motor No.621 May operate on all V/Line Standard Gauge Network.
NTC 720	115	35	8.75	--	19.400	--	Rail Motor Driving Trailer No.721 May operate on all V/Line Standard Gauge Network.

RAIL OPERATORS ROLLINGSTOCK

TRANSPORT HERITAGE NSW

DIESEL ELECTRIC LOCOMOTIVES

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
442 Ω	115	115.0	19.2	5,500	18.700	1600	Nos.44211 Standard Gauge Only. May operate as per X Class locomotive category.
43 Ω	115	107.6	17.8	5,300	16.410	1300	Nos.4306 Standard Gauge Only. May operate as per GM Class locomotive category.
44 Ω	115	112.0	18.7	5,500	17.800	1450	Nos.4490 Standard Gauge Only. May operate as per X Class locomotive category.
45 Ω	115	112.0	18.7	5,500	17.880	1450	Nos.4501, 4520 Standard Gauge Only. May operate as per X Class locomotive category.
49 Ω	100	81.0	13.5	3,140	15.400	710	Nos.4916. Standard Gauge Only. May operate as per T Class locomotive category.

Note Ω Authorised to operate on SG Network Southern Cross Station only

TRANSPORT HERITAGE NSW

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO TRANSPORT HERITAGE NSW

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Seymour Railway Heritage Centre	P	100	77	19.20	3,410	14.600	710	No. 22.
	S	115 #	123	20.50	6,820	18.600	1340	No. 303 Single end operation only
	T	100	69	17.30	3,410	14.600	710	Nos. 357.

Note # Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

TRANSPORT HERITAGE NSW

PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
BCS Ω	Club Lounge/bar Car	115	41	24.430	Nos 2357, 2379 Standard Gauge Only.
FAM Ω	Sleeping car	115	47.8	24.430	Nos 2391 Standard Gauge Only.
LAN Ω	Sleeping car	115	46	24.430	Nos 2348, 2352, 2372, 2377 Standard Gauge Only.
NAM Ω	Sleeping car	115	46	24.430	Nos 2330, 2332, 2335, 2338, 2341, 2342, 2373, 2374, 2375 Standard Gauge Only.
PHA Ω	Power Car	115	54.4	24.200	Nos 2358, 2359. Standard Gauge Only.
PHN Ω	Power Car	115	31.0	12.450	No. 2363 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
RMS Ω	Dining Car	115	46	23.430	Nos 2358, 2359, 2360. Standard Gauge Only.

Note Ω Authorised to operate on SG Network Southern Cross Station only

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

V/LINE

DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks / Restrictions
A	115	121	20.20	4,540	18.500	1680	No. 66.
N	130	128	21.30	6,800	20.000	1680	Nos. 451 – 454, 456 – 462, 465, 467 - 475. Fitted with auxiliary generator to provide Head End Power to passenger carriages. Fitted with D77/78 traction motors
P	100	77	19.20	3,410	14.600	710	Nos. 12, 13, 15. Fitted with auxiliary generator to provide Head End Power to passenger carriages (H sets only). Able to operate in push/pull mode with H sets.
Y	65	68	17.00	4,550	13.300	450	Nos. 129, 156, 161, 163.

V/LINE

DIESEL RAIL CARS

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Kw for Traction	Diesel Rail Cars
Sprinter	Self-propelled Passenger vehicle.	130	47	25.900	460	Nos. 7001–7018, 7020–7022 See Note ∞
Vlocity	Self-propelled Passenger vehicle. Operates as a permanently coupled three car unit.	160	181 (Three Car Set)	75.220 (Three Car Set)	1680	DMD No. 1100-1128, 1130-1192, 1199, 2100-2118 TM No. 1300-1328, 1330-1392, 1399, 2300-2318 DM No. 1200-1228, 1230-1292, 1299, 2200-2218 See Note #
Vlocity	Self-propelled Passenger vehicle. Operates as a permanently coupled three car unit.	160 BG 130 SG	176 (Three Car Set)	75.220 (Three Car Set)	1680	DMD No. 1193-1198 TMC No. 1593-1598 DM No. 1293-1298 See Note # See Note \$

Note # Where the authorised line speed does not allow for Vlocity Rail Cars to operate greater than 130 Km/h they are to be treated and read as that for Sprinter Rail Cars within the Network Service Plan.
 Maximum speed is restricted to 80 km/h when operating in deflated air bag conditions – Broad gauge cars.
 Maximum speed is restricted to 45 km/h when operating in deflated air bag conditions – Standard gauge cars.
 May operate in 9-Car configuration for passenger services between Southern Cross and Wyndham Vale South.
 Not permitted to operate in 9-Car configuration between Werribee and Geelong over AC track circuits unless rail sanding isolated on one 3-Car set.
 Three car sets normally configured with 11xx/21xx car East end and 12xx/22xx car West end

Note \$ Authorised to operate on Broad Gauge as Empty Cars/Non Revenue Service only.

Note ∞ Sprinter passenger DMUs are restricted to operate in multiple unit on the following V/Line corridors:-
 Werribee – Waurn Ponds, Sunshine – Ballarat - Ararat, Ballarat - Maryborough, North Geelong – Ballarat, Sunbury – Bendigo, North Bendigo Junction – Eaglehawk, North Bendigo Junction – Echuca, Craigieburn – Seymour – Shepparton and Pakenham – Sale.
 A single Sprinter DMU consist may operate in Station limits, local yard moves, and between Southern Cross and Dynon.
 Sprinters are not permitted to stop at the following Station Platforms due to Platform Clearance issues –
 Sunshine Platform Extensions only, Platforms 3 and 4. Deer Park Station Platforms 1 and 2. Little River Platform 2. Waurn Ponds Platform 2.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE DIESEL RAIL CARS

On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Annual date for Accreditation	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Kw for Traction	Diesel Rail Cars
Diesel Electric Rail Motor £	Self-Propelled Passenger Vehicle with Brakevan.	100	15/08/2024	47	18.300	160	No. 58 Auto coupling (with maximum allowable load on coupling to be 85 tonnes) and 1.5 tonne capacity

Note £ The maintenance of these vehicles is the responsibility of DIESEL ELECTRIC RAIL MOTOR PRESERVATION ASSOCIATION

V/LINE

HERITAGE STEAM LOCOMOTIVES

On Hire/Lease to V/Line

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Fuel Capacity (Litres)	Remarks / Restrictions
R ♣	115	191	21.10	17/11/2024	23.500	6 tonnes coal 40,950 litres water	No. 707
J ♠	80	115	15.80	04/10/2007	18.400	7 tonnes coal 19,110 litres water	No. 515
D ³ ▶	95	102	14.00	02/04/2025	18.400	5 tonnes coal 19,110 litres water	No. 639
K ▶	80	106	13.70	04/05/2024 153 24/10/2024 183 02/04/2025 190	18.400	5 tonnes coal 19,110 litres water	No's. 153, 183, 190. NOTE: K153 may operate as K100 or K140.
R ▶	115	191	21.10	23/06/2024	23.500	Oil fired-10,750litres oil. 40,950 litres water	No. 711
	115	191	21.10	23/06/2024	23.500	6 tonnes coal 40,950 litres water	No. 761
Y ▶	60	75.2	15.60	11/05/2023	14.662	5 tonnes coal 10,000 litres water	No. 112
A ² ▶	80	123.3	17.8	19/04/2024	19.340	6 tonnes coal 21000 litres water	No.986.

Note ♣ The maintenance of these vehicles is the responsibility of SEVEN O SEVEN OPERATIONS

Note ♠ The maintenance of these vehicles is the responsibility of SEYMOUR RAILWAY HERITAGE CENTRE

Note ▶ The maintenance of these vehicles is the responsibility of STEAMRAIL VICTORIA



RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE DIESEL ELECTRIC LOCOMOTIVES

On Hire/Lease to V/Line

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Kw for Traction	Remarks / Restrictions
A ♣	115	121	20.20	22/06/2024	18.500	1680	No. 62
F ♣	30	51	17.0	16/06/2023	9.34		No. 208
H ♣	100	81	20.30	24/04/2024	13.400	820	No. 3 Fitted with Low-Speed Control
H ♣	100	81	20.30	16/06/2023	13.400	820	No. 5 Fitted with Low-Speed Control
T ♣	100	69	17.30	02/06/2024	13.400	710	No. 387
T ♣	100	69	17.30	01/04/2023	13.400	710	No. 392
T ♣	100	69	17.30	01/03/2022	14.700	710	No. 413
S ♣	115 #	123	20.50	24/04/2024	18.600	1340	No. 306
XR ♣	115	123	20.50	12/02/2021	18.400	2237	No. 555
Y ♣	65	68	17.00	17/11/2024	13.300	450	No. 127
S ▶	115 #	123	20.50	15/03/2025	18.600	1340	No. 301
S ▶	115 #	123	20.50	15/03/2025	18.600	1340	No. 313
T ▶	100	69	17.30	23/11/2024	14.600	710	No. 334
T ▶	100	69	17.30	23/11/2024	13.400	710	No. 356
T ▶	100	69	17.30	02/06/2024	13.400	710	No. 364
T ▶	100	69	17.30	14/01/2024	13.400	710	No. 395
Y ▶	65	68	17.00	12/12/2020	13.300	450	No. 164
A ♠	60	121	20.20	07/06/2020	18.500	1680	No. 60 One way transfer South Dynon – Seymour only.
B ♠	115	123	20.50	15/10/2022	18.500	1120	No. 74 One way transfer South Dynon – Seymour only.
C ♠	115 II	134 @	22.40	31/03/2024	20.600	2240	No. 501 Standard Gauge
S ♠	115	123	20.50	30/04/2023	18.600	1340	No. 303 Single end operation only
S ♠	115 #	123	20.50	31/07/2024	18.600	1340	No. 307 Standard Gauge
T ♠	100	69	17.30	30/04/2014	14.700	710	No. 320
T ♠	100	69	17.30	31/12/2024	14.600	710	No. 342
T ♠	100	69	17.30	30/04/2024	14.600	710	No. 357 Standard Gauge
T ♠	100	69	17.30	31/12/2023	13.400	710	No. 378
T ♠	100	69	17.30	31/12/2023	13.400	710	No. 382
P ♠	100	77	19.20	28/02/2023	14.600	710	No. 22 Fitted with auxiliary generator to provide Head End Power Standard Gauge
P ♠	100	76	19.00	31/07/2022	13.600	710	No. 23 Fitted with auxiliary generator to provide Head End Power

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

On Hire/Lease to V/Line

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Kw for Traction	Remarks / Restrictions
X ♠	115	114	19.00	31/12/2023	18.400	1340	No. 31

Note II Maximum speed 50km/h when running long end leading. This locomotive is permitted to operate on main lines from the short end, except for long end movements between Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

Note # Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

Note @ Refer Train Operating Data for each line section for permitted "CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS"

Note ♣ The maintenance of these vehicles is the responsibility of **SEVEN O SEVEN OPERATIONS**

Note ♠ The maintenance of these vehicles is the responsibility of **SEYMOUR RAILWAY HERITAGE CENTRE**

Note ▶ The maintenance of these vehicles is the responsibility of **STEAMRAIL VICTORIA**

V/LINE

PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
ACN	Saloon type with Staff Compartment	115	43	22.800	Nos. 9, 12, 15, 18, 24, 27, 30, 33, 36, 39, 42, 51, 54, 57. Air-conditioned, all steel body and auto coupling.
BCH (short)	Saloon type with Staff Compartment	115	37	19.300	Nos. 121–135 Air-conditioned, steel body and auto/draw bar coupling.
BCH (long)	Saloon type with Staff Compartment	115	40	23.500	Nos. 132 - 135 Air-conditioned, steel body and auto/draw bar coupling.
BCZ	Saloon type with Staff Compartment	115	48.7	22.800	No. 260 Stored Air-conditioned, all steel body and auto coupling.
BDN	Saloon type	115	42	22.800	Nos. 2, 6, 21 & 50. Air-conditioned, all steel body and auto coupling.
BH (short)	Saloon type	115	34	19.200	Nos. 141–149 Air-conditioned, steel body and draw bar coupling.
BH (long)	Saloon type	115	39	23.400	Nos. 152, 153 Air-conditioned, steel body and draw bar coupling.
BIH (short)	Saloon type	115	33	19.300	Nos. 182–194 Air-conditioned, steel body and draw bar coupling. Without toilet.
BN	Saloon type	115	43	22.800	Nos. 1, 4, 7-8, 10-11, 13-14, 16-17, 23, 25-26, 28, 55. Air-conditioned, all steel body and auto coupling.
BRN	Saloon type with Buffet	115	44	22.800	Nos. 29, 31, 32, 34, 35, 37, 38, 40, 41, 44, 47, 49, 52, 56. Air-conditioned, all steel body and auto coupling.
BTH (short)	Saloon type	115	34	19.300	Nos. 161–171, 174, 175 Air-conditioned, steel body and auto/draw bar coupling.
BTH (long)	Saloon type	115	39	23.500	Nos. 172, 173 Air-conditioned, steel body and auto/draw bar coupling.
BTN	Saloon type	115	50	22.800	Nos. 263, 264, 268. Air-conditioned, all steel body and auto coupling.
BZN	Saloon type	115	50	22.800	Nos. 252, 253, 256, 258, 261, 262, 265, 266, 267, 271, 272, 273, 274, 275, 276. Air-conditioned, all steel body and auto coupling.
D	Parcels Van	115	36	12.800	Nos. 302, 322, 324, 335, 339. All steel body, auto coupling and 24.5 tonne capacity.
	Parcels Van	115	36	12.800	Nos. 358 Stored. All steel body, auto coupling and 24.5 tonne capacity.
DN	Parcels Van	115	36	12.800	Nos. 403 Stored. All steel body, auto coupling and 24.5 tonne capacity.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

V/LINE

PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
PH	Power Van	115	40	12.800	Nos. 451, 452, 453 and 454. All steel body, auto coupling for use with car sets requiring Head End Power.

V/LINE

HERITAGE PASSENGER VEHICLES

On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
ACN ♣	Saloon type with Staff Compartment	115	43	16/08/2024	22.800	Nos. 45, 48. Air-conditioned, all steel body and auto coupling. Standard Gauge
ACZ ♣	Saloon type with Goods Compartment	115	50	22/06/2024	22.800	Nos. 255, 257 Air-conditioned, all steel body and auto coupling.
BK ♣	Club/Lounge Carriage	115	39	22/06/2024	19.015	No. 708 All steel body & auto coupling.
BN ♣	Saloon type	115	43	16/08/2024	22.800	Nos. 5, 22. Air-conditioned, all steel body and auto coupling. Standard Gauge
BRN ♣	Saloon type with Buffet	115	44	16/08/2024	22.800	No. 43. Air-conditioned, all steel body and auto coupling. Standard Gauge
BRS ♣	Passenger Carriage	115	48	24/04/2024	22.800	No. 224 Air-conditioned, all steel body and auto coupling.
BS ♣	Passenger Carriage	115	49	30/07/2020 - 205 24/04/2024 - 212 24/04/2024 - 215	22.800	Nos. 205, 212, 215 Air-conditioned, all steel body and auto coupling
BTN ♣	Saloon type Passenger Carriage	115	50	10/07/2024	22.800	No. 259. Air-conditioned, all steel body and auto coupling.
BZ ♣	Passenger Carriage	115	50	24/04/2024	22.800	No. 270 Air-conditioned, all steel body and auto coupling.
Club ♣	Club Car	115	43	22/06/2024	23.826	No. 1 Named VICTORIA Air-conditioned, all steel body and auto coupling
CP ♣	Brake Van	115	37	22/06/2024	12.800	No. 35 All steel body, auto coupling & 10 tonne capacity.
D ♣	Parcels Van	115	36	22/06/2024	12.800	No. 318 All steel body, auto coupling & 24.5 tonne capacity.
JTA ♣	Sleeping Car	115	48.7	22/06/2024	23.826	No. 6 (Kuldalai) Air-conditioned, all steel body and auto coupling.
LAN ♣	Sleeping Car	115	46	22/06/2024	23.400	Nos. 2352, 2354

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE PASSENGER VEHICLES

On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
						Air-conditioned, stainless steel body & auto coupling
Lowanna ♣	Sitting Car	115	45	27/04/2024	19.015	No. 783. Sth Aust 700 'BK'. Auto coupling.
NAM ♣	Sleeping Car	115	46	22/06/2024	23.400	No. 2336 Air-conditioned, stainless steel body & auto coupling
PCJ ♣	Power Van	115	67	10/11/2022	23.900	No 492. All steel body, auto coupling, 10 tonne capacity. (Valid One Way Transfer South Dynon – Newport Only MAX SPEED 40 KM/H)
PCJ ♣	Power Van	115	67	16/08/2024	23.900	No 493. All steel body, auto coupling, 10 tonne capacity. Standard Gauge
PCP ♣	Power Van	115	31	24/04/2024	12.800	No. 294 All steel body, vestibule west end, auto coupling & 6 tonne capacity.
SJ ♣	Sleeping Car	115	53	22/06/2024	23.850	No. 284 Air-conditioned, all steel body and auto coupling.
Wando ♣	Sleeping Car	80	45	09/05/2024	22.585	No. 5 Sleeper 'E' Type carriage, Auto coupling.
ABE ♠	Passenger Carriage	80	46	31/12/2023	22.500	No. 5, 16 Wooden body & auto coupling.
ACN ♠	Saloon type with Staff Compartment	115	43	30/04/2024	22.800	No. 3. Air-conditioned, all steel body and auto coupling. Standard Gauge
AE ♠	Passenger Carriage	80	46	31/12/2023	22.500	No. 2, 30 Wooden body & auto coupling.
AS ♠	Passenger Carriage	115	49	30/09/2024	22.800	No. 3 Air-conditioned, all steel body and auto coupling. Standard Gauge
AS ♠	Passenger Carriage	115	49	30/09/2024	22.800	No. 4 Air-conditioned, all steel body and auto coupling. Standard Gauge
Avoca ♠	Dining Car	115	75	31/03/2020	23.100	(Old Class RS 235) Air-conditioned, all steel body and auto coupling.
BCE ♠	Passenger/Guards Van	80	50	31/03/2024	22.500	No. 3 Wooden body & auto coupling. Equipped with van goods compartment.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE PASSENGER VEHICLES

On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
BE ♠	Passenger Carriage	80	46	31/12/2022 - 1 31/12/2023 - 14	22.500	No. 1 & 14 Wooden body & auto coupling.
BE ♠	Passenger Carriage	80	46	31/12/2023	22.500	No. 26 Wooden body & auto coupling.
BN ♠	Saloon type	115	43	30/04/2024	22.800	No. 19. Air-conditioned, all steel body and auto coupling. Standard Gauge
BRN ♠	Saloon type with Buffet	115	44	TBA - 46 30/04/2024 - 53	22.800	Nos. 46, 53. Air-conditioned, all steel body and auto coupling. Standard Gauge
BS ♠	Passenger Carriage	115	48	30/04/2024	22.800	No. 1 No. 11 (Old Class VFS 214) Air-conditioned, all steel body and auto coupling. Standard Gauge
BS ♠	Passenger Carriage	115	48	31/03/2020	22.800	No. 3 Air-conditioned, all steel body and auto coupling.
CS ♠	Brake Van	115	56	30/04/2024	18.200	No. 1 All steel body, auto coupling & 20 tonne capacity. Standard Gauge
Dining ♠	Dining Car	115	54	21/11/2024	22.800	Murray (Old Class RS 236) Air-conditioned, all steel body and auto coupling
BP ♠	Power Van	115	36	31/10/2019	12.800	No. 92 (Old Class D 319) All steel body, auto coupling
Mitta Mitta ♠	Passenger Carriage	115	50	31/12/2023	22.800	Mitta Mitta (Old Class BRS228) Air-conditioned, all steel body and auto coupling.
Parlor ♠	Observation Car with Compartment	115	54	30/04/2024	22.800	Norman (Old Class OS237) Air-conditioned, all steel body and auto coupling. Standard Gauge
PZ ♠	Power Van	115	55	29/02/2024	22.860	No. 10 All steel body, auto coupling, previously PZ260 / ACZ260 (Z type carriage)
State ♠	Passenger Carriage	80	50	31/12/2023	22.700	State No. 4 Wooden body & auto coupling. Open platform at one end.
State ♠	Passenger Carriage	115	55	30/03/2020	22.860	State No. 5 Air-conditioned, all steel body and auto coupling.
Yarra ♠	Passenger Carriage	80	41	31/12/2023	22.500	Yarra Wooden body & auto coupling. Open platform at Saloon end

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE PASSENGER VEHICLES

On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
VAM ▲	Passenger Carriage	115	51	31/10/2023	23.930	No. 1 Air-conditioned, all steel body and auto coupling.
ABE ►	Passenger Carriage	80	46	10/08/2024	22.500	No. 3 Wooden body & auto coupling.
ABE ►	Passenger Carriage	80	46	15/03/2025	22.500	No. 7 Wooden body & auto coupling.
AE ►	Passenger Carriage	80	46	23/06/2024	22.500	No. 12 Wooden body & auto coupling.
AK ►	Passenger Carriage	115	42	31/08/2016	22.000	No. 500 All steel body & auto coupling.
AS ►	Passenger Carriage	115	49	15/03/2025	22.800	No. 5 Air-conditioned, all steel body & auto coupling.
				27/07/2024	22.800	No. 8 Air-conditioned, all steel body & auto coupling.
				23/06/2024	22.800	No. 11 Air-conditioned, all steel body & auto coupling.
AW ►	Passenger Carriage	80	32	02/06/2024	17.700	No. 64 Wooden body & auto coupling.
AZ ►	Saloon type Passenger Carriage	115	50	TBA	22.800	No. 4 Air-conditioned, all steel body and auto coupling.
BCE ►	Passenger/Guards Van	80	43	10/08/2024	22.800	No. 1 Wooden body & auto coupling. Equipped with van goods compartment.
BE ►	Passenger Carriage	80	46	31/10/2009	22.500	No. 4 Wooden body & auto coupling.
				15/03/2025	22.500	No. 46 Wooden body & auto coupling.
				06/05/2024	22.500	No. 17 Wooden body & auto coupling
				10/03/2024	22.500	No. 25 Wooden body & auto coupling
				15/03/2025	22.500	No. 38 Wooden body & auto coupling.
BK ►	Passenger Carriage	115	40	03/05/2024	19.000	No. 600 All steel body & auto coupling.
				30/04/2016	19.000	No. 702 All steel body & auto coupling.
BK ►	Passenger Carriage	115	40	03/05/2024	19.000	No. 700 All steel body & auto coupling.
BRS ►	Passenger Carriage	115	48	23/06/2024	22.800	No. 14 Air-conditioned, all steel body & auto coupling.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE PASSENGER VEHICLES

On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
BRS ▶	Passenger Carriage	115	48	10/03/2024	22.800	No. 9 Air-conditioned, all steel body & auto coupling.
BS ▶	Passenger Carriage	115	49	03/10/2020	22.800	No. 2 Air-conditioned, all steel body & auto coupling.
BW ▶	Passenger Carriage	80	36	07/05/2020 - 61 07/05/2020 - 63	20.300	No. 61, 63 Wooden body & auto coupling.
				02/06/2024 – 67 02/06/2024 – 68	20.300	Nos. 67, 68 Wooden body & auto coupling.
				15/05/2018	20.300	No. 60 Wooden body & auto coupling.
				07/05/2020	20.300	No. 80 Wooden body & auto coupling.
BZ ▶	Passenger Carriage	115	50	03/11/2024	22.800	Hobsons Bay No. 269 Air-conditioned, all steel body & auto coupling.
Carey ▶	Shower and Sanitary Carriage	80	30	03/10/2024	14.700	Wooden body, auto couplings. NOT PERMITTED TO OPERATE THROUGH GEELONG TUNNEL UNTIL FURTHER DATA PROVIDED FOR REVIEW.
CE ▶	Guards Van	80	46	08/12/2024	19.300	No. 18 Wooden body & auto coupling & 12 tonne capacity.
CW ▶	Guards Van	80	36	19/04/2024	16.200	No. 14 Wooden body & auto coupling.
M ▶	Suburban Electric Motor	80	55	07/06/2024	18.800	Nos. 317, 381 Wooden body & screw coupling Loco Hauled
D ▶	Suburban Electric Driving Trailer	80	35	07/06/2024	18.700	No. 230 Wooden body & screw coupling
T ▶	Suburban Electric Trailer	80	35	13/09/2024 – 341 07/06/2024 - 208	18.700	Nos. 208, 341 Wooden body & screw coupling
Coliban ▶	Sleeping Car	80	46	02/06/2024	22.500	Coliban No. 7 Wooden body & auto coupling.
Goulburn ▶	Sleeping Car	80	51	02/06/2024	22.500	Goulburn Wooden body & auto coupling.
Indi ▶	Sleeping Car	80	56	20/05/2020	22.500	Indi No. 2 Air-conditioned, wooden body & auto coupling
Inman ▶	Sleeping Car	80	46	22/05/2020	22.500	Inman No. 8 Wooden body & auto coupling.

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE PASSENGER VEHICLES

On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
Moorabool ▶	Club Car	115	56	27/07/2024	22.800	Moorabool (Old Class RS 234) Air-conditioned, all steel body & auto coupling
PCJ ▶	Power Van	115	67	TBA	23.900	No 491. All steel body, auto coupling, 10 tonne capacity.
PCP ▶	Power Van	115	67	15/03/2025	12.800	No. 292 All steel body, vestibule west end, auto coupling & 6 tonne capacity.
SJ ▶	Sleeping Car	115	53	01/12/2024	23.850	No. 282 Air-conditioned, all steel body and auto coupling.
Werribee ▶	Sleeping Car	80	56	14/01/2024	22.500	No. 1 Wooden body & auto coupling.
Macedon ▶	Lounge Car	115	60	07/05/2020	24.766	Pullman Type, Auto coupling Requires a clearance assessment prior to each path approval on V/Line Network. Only allowed on the V/Line Network with steps removed.
Tambo ▶	Sleeping Car	80	45	07/05/2020	22.587	'E' Type carriage, Auto coupling.

- Note ♣** The maintenance of these vehicles is the responsibility of **SEVEN O SEVEN OPERATIONS**
- Note ♣** The maintenance of these vehicles is the responsibility of **SEYMOUR RAILWAY HERITAGE CENTRE**
- Note ▶** The maintenance of these vehicles is the responsibility of **STEAMRAIL VICTORIA**

V/LINE

FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
VHCF	Hopper	65	22.0	80 #	2	11.200	1435	No	VHCA		Wagons to be utilised for weighbridge testing and calibration ONLY. #VHCF x 3 – 80 Tonne #VHCF x 3 – 65 Tonne #VHCF x 2 – 35 Tonne #VHCF x 2 – 22 Tonne

NETWORK SERVICE PLAN



RAIL OPERATORS ROLLINGSTOCK

V/LINE

HERITAGE FREIGHT VEHICLES

On Hire/Lease to V/Line

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Annual date for Accreditation	Old Class	Deck Ht. (mm)	Remarks – Restrictions
VOAF ♣	Open	80	18.7	45		13.900	1600	22/06/2024	VOAA	1192	No 100
VOAF ▶	Open	90	18.7	45		13.900	1600	02/06/2024	VOAA		No 9
VZVF ▶	Water Tanker	95	35.0	25.0		20.000	1600	02/06/2024	VZVA		No 1

Note ♣ The maintenance of these vehicles is the responsibility of **SEVEN O SEVEN OPERATIONS**

Note ♠ The maintenance of these vehicles is the responsibility of **SEYMOUR RAILWAY HERITAGE CENTRE**

Note ▶ The maintenance of these vehicles is the responsibility of **STEAMRAIL VICTORIA**

RAIL OPERATORS ROLLINGSTOCK

V/LINE

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)
Ballast Tamper	RNTM 3001 - 2	Pandrol Jackson 6700 Production/Switch Tamper	14.75	31.0	72	50
Ballast Regulator	RNBR 3001 – 2	Knox Kershaw KBR850 Ballast Regulator	10.87	15.0	72	50
Ballast Regulator	RNBR 3003	Knox Kershaw KBR850 Ballast Regulator with Compactor fitted.	9.30	19.6	72	50
Rail Milling Machine	OLU-001	Linsinger SF02-W-FS road transferable Rail Milling machine	18.30	46.2	40	40
Rail Lifter α	PNRL3001	Harrybilt Rail Lifter	1.23	1.9	5	N/A
Rail Lifter α	PNRL3002	Harrybilt Rail Lifter	1.23	1.9	5	N/A

Note α Operates in closed work site only after site specific risk assessment.

V/LINE

TRACK RECORDING VEHICLES

OPERATED BY V/LINE ON A 'HOOK & PULL' AGREEMENT

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for bogie exchange	Remarks/Restriction
EV	Inspection Car	120	47	21.550	1600	No	No. 120 Infrastructure Evaluation Vehicle. Pantographs fitted. (Metro Trains Melbourne)