

PBS Vehicle Approval

Heavy Vehicle National Law Section 23

Heavy Vehicle (General) National Regulation Section 17

The driver must always carry a copy of this PBS Vehicle Approval and an associated access permit (if applicable) and must be able to produce a readable copy (electronic or hard copy) for inspection by Authorised Officers upon request. Failure to do this can incur penalties for both the operator and driver.

This document is not an approval to access the road network, you must comply with a Notice and its conditions or operate under an access permit. To apply for an access permit, visit the [NHVR Portal](#).

16 June 2023

Ref No: PBS – VA13923 – V220109 – v1B

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Application Number V220109 and is a modification of VA13805.

Design Approval Holder	Victor Trumper JALAVICA PTY LTD	Address	30/240 Plenty Rd Bundoora VIC 3083
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Application Number	V220109	Vehicle	A-Double (3-2-3)
Load	Quarry and Bulk	Length (mm)	≤ 31300
Assessor	Daniel Nolan	Height (mm)	≤ 4300

Approval under section 8 of the Heavy Vehicle (General) National Regulation – Non compliance	
A heavy vehicle built to this design does not comply with the following Infrastructure Standard/s:	Pavement Horizontal Loading (A2)
Condition:	Any PBS vehicle approval for a heavy vehicle built to this design above 85t at Level 2 will be subject to the condition that the vehicle may only be operated under an agreement made with each responsible road authority and road manager for roads on which the vehicle is to operate.

Combination Matrix

For each Prime Mover and Trailer Set, the corresponding drawing reference number, dimension set number and mass table number/s are listed below. The dimension set number e.g., 'Variant 1' indicates the maximum allowable payload heights and/or allowable tyre options for the corresponding Prime Mover and Trailer Set - refer to the Operating Conditions and Approved Tyre Options sections on this VA.

New VINs added in this VA are listed in bold.

Prime Mover 1	Make	GCM (t)	Prime Mover 2	Make	GCM (t)
6F5000000MA471861 6F5000000LA468753	KW	106	6F5000000NA474520	KW	131

Prime Mover 3	Make	GCM (t)	Prime Mover 4	Make	GCM (t)
6F0000000NA475226	KW	97	6F5000000HA459921	KW	130

Prime Mover 5	Make	GCM (t)
6F5000000PA470328	KW	115

Lead Trailer 1	ATM (t)	Lead Trailer 2	ATM (t)
6T9T25WA1MA8D6419 6RFBRE025NB100496	48	6B9TR3TR1LSCB8762	37

Dolly 1	ATM (t)	Dolly 2	ATM (t)
6K9ABSTR3MC114351	18	6RFBRE023NB100728	18

Rear Trailer 1	ATM (t)	Rear Trailer 2	ATM (t)
6T9T25WA1MA8D6420 6RFBRE025NB100497	48	6B9TR3TR1MSCB8877	37

Trailer Sets			
Trailer Set 1	Lead Trailer 1	Dolly 1	Rear Trailer 1
Trailer Set 2	Lead Trailer 1	Dolly 2	Rear Trailer 1
Trailer Set 3	Lead Trailer 2	Dolly 1	Rear Trailer 2
Trailer Set 4	Lead Trailer 2	Dolly 2	Rear Trailer 2

	Trailer Set 1	Trailer Set 2
Prime Mover 1	BTT01004-ADouble01 Variant 1 Table 1, 8	BTT01004-ADouble01 Variant 1 Table 1,8
Prime Mover 2	BTT01004-ADouble01 Variant 1 Table 1, 9	BTT01004-ADouble01 Variant 1 Table 1, 9
Prime Mover 3	BTT01004-ADouble01 Variant 1 Table 1, 10	BTT01004-ADouble01 Variant 1 Table 1, 10
Prime Mover 4	BTT01004-ADouble01 Variant 2 Table 2, 5, 17, 30	BTT01004-ADouble01 Variant 2 Table 2, 5, 18, 31
Prime Mover 5	BTT01004-ADouble01 Variant 2 Table 2, 5, 21, 34	BTT01004-ADouble01 Variant 2 Table 2, 5, 21, 34

	Trailer Set 3	Trailer Set 4
Prime Mover 1	BTT01004-ADouble02 Variant 3 Table 3, 6, 11, 24	BTT01004-ADouble02 Variant 3 Table 4, 7, 12, 25
Prime Mover 2	BTT01004-ADouble02 Variant 3 Table 3, 6, 13, 26	BTT01004-ADouble02 Variant 3 Table 4, 7, 14, 27
Prime Mover 3	BTT01004-ADouble02 Variant 3 Table 3, 6, 15, 28	BTT01004-ADouble02 Variant 3 Table 4, 7, 16, 29
Prime Mover 4	BTT01004-ADouble02 Variant 3 Table 3, 6, 19, 32	BTT01004-ADouble02 Variant 3 Table 4, 7, 20, 33
Prime Mover 5	BTT01004-ADouble02 Variant 3 Table 3, 6, 22, 35	BTT01004-ADouble02 Variant 3 Table 4, 7, 23, 36

Table 1
Prime Mover 1, 2, 3 and Trailer Set 1, 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	79.5	Steer (t)	6.5	6.5	6.5
CML (t)	81.5	Drive (t)	16.5	17.0	17.0
HML (t)	85.0	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 2/3	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5

Table 2
Prime Mover 4, 5 and Trailer Set 1, 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	79.5	Steer (t)	6.5	6.5	6.5
CML (t)	81.5	Drive (t)	16.5	17.0	17.0
HML (t)	85.5	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 2/3	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5

Table 3
Prime Mover 1, 2, 3, 4, 5 and Trailer Set 3

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	79.5	Steer (t)	6.5	6.5	6.5
CML (t)	81.5	Drive (t)	16.5	17.0	17.0
HML (t)	85.5	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 2/3	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		7 to 11	39.50	39.50	39.50

Table 4
Prime Mover 1, 2, 3, 4, 5 and Trailer Set 4

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	79.5	Steer (t)	6.5	6.5	6.5
CML (t)	81.5	Drive (t)	16.5	17.0	17.0
HML (t)	85.5	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 2/3	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		7 to 11	39.26	39.26	39.26

Table 5
Prime Mover 4, 5 and Trailer Set 1, 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	80.1	Steer (t)	7.1	7.1	7.1
CML (t)	82.1	Drive (t)	16.5	17.0	17.0
HML (t)	85.5	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 2/3	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5

Table 6
Prime Mover 1, 2, 3, 4, 5 and Trailer Set 3

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	80.1	Steer (t)	7.1	7.1	7.1
CML (t)	82.1	Drive (t)	16.5	17.0	17.0
HML (t)	85.5	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 2/3	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -					
		Axle Groups	GML	CML	HML
		7 to 11	39.50	39.50	39.50

Table 7
Prime Mover 1, 2, 3, 4, 5 and Trailer Set 4

Prime Mover 1, 2, 3, 4, 5 and Trailer Set 4						
Mass Limits	Level 2		Axle Group Masses	Level 2		
				GML	CML	HML
GML (t)	80.1		Steer (t)	7.1	7.1	7.1
CML (t)	82.1		Drive (t)	16.5	17.0	17.0
HML (t)	85.5		Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 2/3		Dolly (t)	16.5	17.0	17.0
			Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -				
		Axle Groups	GML	CML	HML	
			7 to 11	39.26	39.26	39.26

Table 8
Prime Mover 1 and Trailer Set 1, 2

Prime Mover, Level 2 and Trailer Set 2, Level 2					
Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	71.7	Steer (t)	6.5	6.5	6.5
CML (t)	73.7	Drive (t)	16.5	17.0	17.0
HML (t)	77.7	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		2 to 5	65.30	67.30	71.30
		3 to 5	54.90	56.90	60.40

Table 9
Prime Mover 2 and Trailer Set 1, 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	71.85	Steer (t)	6.5	6.5	6.5
CML (t)	73.85	Drive (t)	16.5	17.0	17.0
HML (t)	77.85	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		2 to 5	65.35	67.35	71.35
		3 to 5	54.90	56.90	60.40

Table 10
Prime Mover 3 and Trailer Set 1, 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	71.8	Steer (t)	6.5	6.5	6.5
CML (t)	73.8	Drive (t)	16.5	17.0	17.0
HML (t)	77.8	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		2 to 5	65.30	67.30	71.30
		3 to 5	54.90	56.90	60.40

Table 11

Prime Mover 1 and Trailer Set 3

Mass Limits	Level 2
GML (t)	68.0
CML (t)	70.0
HML (t)	74.0
Bridge Assessment	Tier 1

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	6.5	6.5	6.5
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
1 to 4	57.65	59.65	61.15
2 to 3	36.25	37.75	39.25
2 to 4	51.20	53.20	54.70
2 to 5	61.60	63.60	67.60
3 to 5	53.45	55.45	58.95
7 to 11	39.50	39.50	39.50

Table 12

Prime Mover 1 and Trailer Set 4

Mass Limits	Level 2
GML (t)	68.0
CML (t)	70.0
HML (t)	74.0
Bridge Assessment	Tier 1

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	6.5	6.5	6.5
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
1 to 4	57.65	59.65	61.15
2 to 3	36.25	37.75	39.25
2 to 4	51.25	53.25	54.75
2 to 5	61.60	63.60	67.60
3 to 5	53.45	55.45	58.95
7 to 11	39.26	39.26	39.26

Table 13
Prime Mover 2 and Trailer Set 3

Prime Mover 2 and Trailer Set 3		Tier 1	Axle Group Masses	Level 2		
Mass Limits	Level 2			GML	CML	HML
GML (t)	68.15		Steer (t)	6.5	6.5	6.5
CML (t)	70.15		Drive (t)	16.5	17.0	17.0
HML (t)	74.15		Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1		Dolly (t)	16.5	17.0	17.0
			Rear Trailer (t)	20.0	21.0	22.5
			The mass across axle groups is limited to -			
			Axle Groups	GML	CML	HML
			1 to 4	58.95	60.95	62.45
		2 to 3	36.40	37.90	39.40	
		2 to 4	51.30	53.30	54.80	
		2 to 5	61.65	63.65	67.65	
		3 to 5	53.45	55.45	58.95	
		7 to 11	39.50	39.50	39.50	

Table 14
Prime Mover 2 and Trailer Set 4

Prime Mover 2 and Trailer Set 4	
Mass Limits	Level 2
GML (t)	68.15
CML (t)	70.15
HML (t)	74.15
Bridge Assessment	Tier 1

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	6.5	6.5	6.5
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
1 to 4	59.00	61.00	62.50
2 to 3	36.40	37.90	39.40
2 to 4	51.30	53.30	54.80
2 to 5	61.65	63.65	67.65
3 to 5	53.45	55.45	58.95
7 to 11	39.26	39.26	39.26

Table 15
Prime Mover 3 and Trailer Set 3

Mass Limits		Level 2
GML (t)	68.1	
CML (t)	70.1	
HML (t)	74.1	
Bridge Assessment	Tier 1	

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	6.5	6.5	6.5
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
1 to 4	59.10	61.10	62.60
2 to 3	36.25	37.75	39.25
2 to 4	51.20	53.20	54.70
2 to 5	61.60	63.60	67.60
3 to 5	53.45	55.45	58.95
7 to 11	39.50	39.50	39.50

Table 16
Prime Mover 3 and Trailer Set 4

Mass Limits		Level 2
GML (t)	68.1	
CML (t)	70.1	
HML (t)	74.1	
Bridge Assessment	Tier 1	

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	6.5	6.5	6.5
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
1 to 4	59.10	61.10	62.60
2 to 3	36.25	37.75	39.25
2 to 4	51.25	53.25	54.75
2 to 5	61.60	63.60	67.60
3 to 5	53.45	55.45	58.95
7 to 11	39.26	39.26	39.26

Table 17
Prime Mover 4 and Trailer Set 1

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	71.9	Steer (t)	6.5	6.5	6.5
CML (t)	73.9	Drive (t)	16.5	17.0	17.0
HML (t)	77.9	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		2 to 5	65.40	67.40	71.40
		3 to 5	54.90	56.90	60.40

Table 18
Prime Mover 4 and Trailer Set 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	71.95	Steer (t)	6.5	6.5	6.5
CML (t)	73.95	Drive (t)	16.5	17.0	17.0
HML (t)	77.95	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		2 to 5	65.45	67.45	71.45
		3 to 5	54.90	56.90	60.40

Table 19
Prime Mover 4 and Trailer Set 3

Prime Mover 4 and Trailer Sets			Axle Group Masses	Level 2		
Mass Limits	Level 2			GML	CML	HML
GML (t)	68.2		Steer (t)	6.5	6.5	6.5
CML (t)	70.2		Drive (t)	16.5	17.0	17.0
HML (t)	74.2		Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1		Dolly (t)	16.5	17.0	17.0
			Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -						
Axle Groups			GML	CML	HML	
			1 to 4	59.45	61.45	62.95
		2 to 4	51.35	53.35	54.85	
		2 to 5	61.70	63.70	67.70	
		3 to 5	53.45	55.45	58.95	
		7 to 11	39.50	39.50	39.50	

Table 20
Prime Mover 4 and Trailer Set 4

Mass Limits	Level 2		Axle Group Masses	Level 2		
				GML	CML	HML
GML (t)	68.2		Steer (t)	6.5	6.5	6.5
CML (t)	70.2		Drive (t)	16.5	17.0	17.0
HML (t)	74.2		Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1		Dolly (t)	16.5	17.0	17.0
			Rear Trailer (t)	20.0	21.0	22.5
			The mass across axle groups is limited to -			
			Axle Groups	GML	CML	HML
			1 to 4	59.45	61.45	62.95
		2 to 4	51.35	53.35	54.85	
		2 to 5	61.70	63.70	67.70	
		3 to 5	53.45	55.45	58.95	
		7 to 11	39.26	39.26	39.26	

Table 21
Prime Mover 5 and Trailer Set 1, 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	71.8	Steer (t)	6.5	6.5	6.5
CML (t)	73.8	Drive (t)	16.5	17.0	17.0
HML (t)	77.8	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		2 to 5	65.30	67.30	71.30
		3 to 5	54.90	56.90	60.40

Table 22
Prime Mover 5 and Trailer Set 3

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	68.1	Steer (t)	6.5	6.5	6.5
CML (t)	70.1	Drive (t)	16.5	17.0	17.0
HML (t)	74.1	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		1 to 4	59.00	61.00	62.50
		2 to 3	36.25	37.75	39.25
		2 to 4	51.20	53.20	54.70
		2 to 5	61.60	63.60	67.60
		3 to 5	53.45	55.45	58.95
		7 to 11	39.50	39.50	39.50

Table 23
Prime Mover 5 and Trailer Set 4

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	68.1	Steer (t)	6.5	6.5	6.5
CML (t)	70.1	Drive (t)	16.5	17.0	17.0
HML (t)	74.1	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -					
		Axle Groups	GML	CML	HML
		1 to 4	59.00	61.00	62.50
		2 to 3	36.25	37.75	39.25
		2 to 4	51.25	53.25	54.75
		2 to 5	61.60	63.60	67.60
		3 to 5	53.45	55.45	58.95
		7 to 11	39.26	39.26	39.26

Table 24
Prime Mover 1 and Trailer Set 3

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	68.0	Steer (t)	7.1	7.1	7.1
CML (t)	70.0	Drive (t)	16.5	17.0	17.0
HML (t)	74.0	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -					
		Axle Groups	GML	CML	HML
		1 to 4	57.65	59.65	61.15
		2 to 3	36.25	37.75	39.25
		2 to 4	51.20	53.20	54.70
		2 to 5	61.60	63.60	67.60
		3 to 5	53.45	55.45	58.95
		7 to 11	39.50	39.50	39.50

Table 25
Prime Mover 1 and Trailer Set 4

Prime Mover 1 and Trailer Set 4					
Mass Limits		Level 2	Level 2		
			GML	CML	HML
GML (t)	68.0	Steer (t)	7.1	7.1	7.1
CML (t)	70.0	Drive (t)	16.5	17.0	17.0
HML (t)	74.0	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
		The mass across axle groups is limited to -			
		Axle Groups	GML	CML	HML
		1 to 4	57.65	59.65	61.15
		2 to 3	36.25	37.75	39.25
		2 to 4	51.25	53.25	54.75
		2 to 5	61.60	63.60	67.60
		3 to 5	53.45	55.45	58.95
		7 to 11	39.26	39.26	39.26

Table 26
Prime Mover 2 and Trailer Set 3

Mass Limits		Level 2
GML (t)	68.75	
CML (t)	70.75	
HML (t)	74.75	
Bridge Assessment	Tier 1	

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	7.1	7.1	7.1
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
1 to 4	58.95	60.95	62.45
2 to 3	36.40	37.90	39.40
2 to 4	51.30	53.30	54.80
2 to 5	61.65	63.65	67.65
3 to 5	53.45	55.45	58.95
7 to 11	39.50	39.50	39.50

Table 27
Prime Mover 2 and Trailer Set 4

Prime Mover 2 and Trailer Set 4			Axle Group Masses	Level 2		
Mass Limits	Level 2			GML	CML	HML
GML (t)	68.75		Steer (t)	7.1	7.1	7.1
CML (t)	70.75		Drive (t)	16.5	17.0	17.0
HML (t)	74.75		Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1		Dolly (t)	16.5	17.0	17.0
			Rear Trailer (t)	20.0	21.0	22.5
			The mass across axle groups is limited to -			
Axle Groups			GML	CML	HML	
1 to 4			59.00	61.00	62.50	
2 to 3		36.40	37.90	39.40		
2 to 4		51.30	53.30	54.80		
2 to 5	61.65	63.65	67.65			
3 to 5	53.45	55.45	58.95			
7 to 11	39.26	39.26	39.26			

Table 28
Prime Mover 3 and Trailer Set 3

Prime Mover and Trailer Sets							
Mass Limits	Level 2	Tier 1	Axle Group Masses	Level 2			
				GML	CML	HML	
GML (t)	68.7			Steer (t)	7.1	7.1	7.1
CML (t)	70.7			Drive (t)	16.5	17.0	17.0
HML (t)	74.7			Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1			Dolly (t)	16.5	17.0	17.0
				Rear Trailer (t)	20.0	21.0	22.5
			The mass across axle groups is limited to -				
				Axle Groups	GML	CML	HML
				1 to 4	59.10	61.10	62.60
			2 to 3	36.25	37.75	39.25	
			2 to 4	51.20	53.20	54.70	
			2 to 5	61.60	63.60	67.60	
			3 to 5	53.45	55.45	58.95	
			7 to 11	39.50	39.50	39.50	

Table 29
Prime Mover 3 and Trailer Set 4

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	68.7	Steer (t)	7.1	7.1	7.1
CML (t)	70.7	Drive (t)	16.5	17.0	17.0
HML (t)	74.7	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -					
		Axle Groups	GML	CML	HML
		1 to 4	59.10	61.10	62.60
		2 to 3	36.25	37.75	39.25
		2 to 4	51.25	53.25	54.75
		2 to 5	61.60	63.60	67.60
		3 to 5	53.45	55.45	58.95
		7 to 11	39.26	39.26	39.26

Table 30
Prime Mover 4 and Trailer Set 1

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	72.5	Steer (t)	7.1	7.1	7.1
CML (t)	74.5	Drive (t)	16.5	17.0	17.0
HML (t)	78.5	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -					
		Axle Groups	GML	CML	HML
		2 to 5	65.40	67.40	71.40
		3 to 5	54.90	56.90	60.40

Table 31
Prime Mover 4 and Trailer Set 2

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	72.55	Steer (t)	7.1	7.1	7.1
CML (t)	74.55	Drive (t)	16.5	17.0	17.0
HML (t)	78.55	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -					
		Axle Groups	GML	CML	HML
		2 to 5	65.45	67.45	71.45
		3 to 5	54.90	56.90	60.40

Table 32
Prime Mover 4 and Trailer Set 3

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	68.8	Steer (t)	7.1	7.1	7.1
CML (t)	70.8	Drive (t)	16.5	17.0	17.0
HML (t)	74.8	Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1	Dolly (t)	16.5	17.0	17.0
		Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -					
		Axle Groups	GML	CML	HML
		1 to 4	59.45	61.45	62.95
		2 to 4	51.35	53.35	54.85
		2 to 5	61.70	63.70	67.70
		3 to 5	53.45	55.45	58.95
		7 to 11	39.50	39.50	39.50

Table 33
Prime Mover 4 and Trailer Set 4

Prime Mover 4 and Trailer Set 4			Axle Group Masses	Level 2		
Mass Limits	Level 2			GML	CML	HML
GML (t)	68.8		Steer (t)	7.1	7.1	7.1
CML (t)	70.8		Drive (t)	16.5	17.0	17.0
HML (t)	74.8		Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1		Dolly (t)	16.5	17.0	17.0
			Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -						
Axle Groups			GML	CML	HML	
			1 to 4	59.45	61.45	62.95
		2 to 4	51.35	53.35	54.85	
		2 to 5	61.70	63.70	67.70	
		3 to 5	53.45	55.45	58.95	
		7 to 11	39.26	39.26	39.26	

Table 34
Prime Mover 5 and Trailer Set 1, 2

Mass Limits		Level 2
GML (t)	72.4	
CML (t)	74.4	
HML (t)	78.4	
Bridge Assessment	Tier 1	

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	7.1	7.1	7.1
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
2 to 5	65.30	67.30	71.30
3 to 5	54.90	56.90	60.40

Table 35
Prime Mover 5 and Trailer Set 3

Prime Mover and Trailer Sets			Axle Group Masses	Level 2		
Mass Limits	Level 2			GML	CML	HML
GML (t)	68.7		Steer (t)	7.1	7.1	7.1
CML (t)	70.7		Drive (t)	16.5	17.0	17.0
HML (t)	74.7		Lead Trailer (t)	20.0	21.0	22.5
Bridge Assessment	Tier 1		Dolly (t)	16.5	17.0	17.0
			Rear Trailer (t)	20.0	21.0	22.5
			The mass across axle groups is limited to -			
			Axle Groups	GML	CML	HML
			1 to 4	59.00	61.00	62.50
		2 to 3	36.25	37.75	39.25	
		2 to 4	51.20	53.20	54.70	
		2 to 5	61.60	63.60	67.60	
		3 to 5	53.45	55.45	58.95	
		7 to 11	39.50	39.50	39.50	

Table 36
Prime Mover 5 and Trailer Set 4

Mass Limits		Level 2
GML (t)	68.7	
CML (t)	70.7	
HML (t)	74.7	
Bridge Assessment	Tier 1	

Axle Group Masses	Level 2		
	GML	CML	HML
Steer (t)	7.1	7.1	7.1
Drive (t)	16.5	17.0	17.0
Lead Trailer (t)	20.0	21.0	22.5
Dolly (t)	16.5	17.0	17.0
Rear Trailer (t)	20.0	21.0	22.5
The mass across axle groups is limited to -			
Axle Groups	GML	CML	HML
1 to 4	59.00	61.00	62.50
2 to 3	36.25	37.75	39.25
2 to 4	51.25	53.25	54.75
2 to 5	61.60	63.60	67.60
3 to 5	53.45	55.45	58.95
7 to 11	39.26	39.26	39.26

Operating conditions

The NHVR approves the vehicles listed herein for the level(s) shown in the “Mass Limits” table with the following operating conditions:

1. The total combination mass must not exceed the limits in the “Mass Limits” table.
2. The axle group masses must not exceed the limits in the “Axle Group Masses” table.
3. If the “Mass Limits” table specifies Tier 2 or Tier 3, a bridge assessment is required.
4. Maximum payload heights measured from the ground must not exceed: (m)

Variant 1:

Lead Trailer			Rear Trailer		
Mass Across Axles 1-6	Heaped payload	Water level payload	Mass Across Axles 7-11	Heaped payload	Water level payload
≤ 36.2t	3.965	3.765	≤ 32.0t	3.965	3.765
≤ 43.0t GML	3.695	3.495	≤ 36.5t GML	3.765	3.565
≤ 44.5t CML	3.645	3.445	≤ 38.0t CML	3.735	3.535
≤ 46.0t HML	3.605	3.405	≤ 39.5t HML	3.715	3.515

Variant 2:

Lead Trailer			Rear Trailer		
Mass Across Axles 1-6	Heaped payload	Water level payload	Mass Across Axles 7-11	Heaped payload	Water level payload
≤ 34.7t	4.010	3.810	≤ 29.9t	3.990	3.790
≤ 43.6t GML	3.620	3.420	≤ 36.5t GML	3.760	3.560
≤ 45.1t CML	3.590	3.390	≤ 38.0t CML	3.720	3.520
≤ 46.6t HML	3.540	3.340	≤ 39.5t HML	3.710	3.510

Variant 3:

Lead Trailer			Rear Trailer		
Mass Across Axles 1-6	Heaped payload	Water level payload	Mass Across Axles 7-11	Heaped payload	Water level payload
≤ 36.0t	3.920	3.720	≤ 30.1t	3.900	3.700
≤ 43.6t GML	3.540	3.340	≤ 36.5t GML	3.450	3.250
≤ 45.1t CML	3.500	3.300	≤ 38.0t CML	3.380	3.180
≤ 46.6t HML	3.460	3.260	≤ 39.5t HML	3.380	3.180

Heaped payloads are taken to be the same volume of material as *water level payloads*.

5. 6.5 tonne complying steer axle requirements:
 - an engine that complies with the engine emission standards of Australian Design Rule (ADR) 80/01 (Euro 4) or a later version of ADR 80; and
 - a front underrun protection device (FUPD) that complies with UN ECE Regulation 93 or ADR 84; and
 - a cabin that complies with UN ECE Regulation 29.
6. 7.1 tonne steer axle requirements:
 - a hauling unit or prime mover forming part of a road train fitted with tyres with section widths of at least 375mm.
7. Concessional Mass Limits (CML) requirements:
 - a National Heavy Vehicle Accreditation Scheme (NHVAS) – Mass Management Accreditation must be in force for all motor vehicles listed on this vehicle approval.
8. Higher Mass Limits (HML) requirements:
 - for tandem axles groups, road friendly suspensions;
 - for tri-axle groups, road friendly suspensions and a National Heavy Vehicle Accreditation Scheme (NHVAS) – Mass Management Accreditation must be in force for all motor vehicles listed on this vehicle approval.
9. When operating at Level 2, there is a minimum mass requirement for the drive axle group. The mass on the drive axle group must be at least 19.7% of the total combination mass e.g. at 79.5t total combination mass, $79.5 \times 0.197 = 15.66\text{t}$ is required on the drive axle group. This clause does not apply to an unladen vehicle.
10. If overall length exceeds 30m, a “ROAD TRAIN” sign must be displayed at the front and rear of the vehicle.
11. If drawbar length exceeds 5m, the outermost surface of the drawbar must be fitted with yellow reflective material that complies with Class C material requirements of United National Economic Commission for Europe Regulation No. 104 Uniform provisions concerning the approval of retro-reflective markings for vehicles of category M, N and O.
12. **Variant 2 & Variant 3** may only be operated above 85t at Level 2 under an agreement made with:
 - if a road authority for a jurisdiction is responsible for the roads on which the vehicle is likely to be operating—each responsible road authority; and
 - if 1 or more road managers are responsible for the roads on which the vehicle is likely to be operating—each responsible road manager.

Exemptions

Heavy Vehicle National Law Section 24

Heavy Vehicle (General) National Regulation Section 28

The following table lists exemptions from prescribed vehicle standards that have been granted for the vehicle(s) in this vehicle approval.

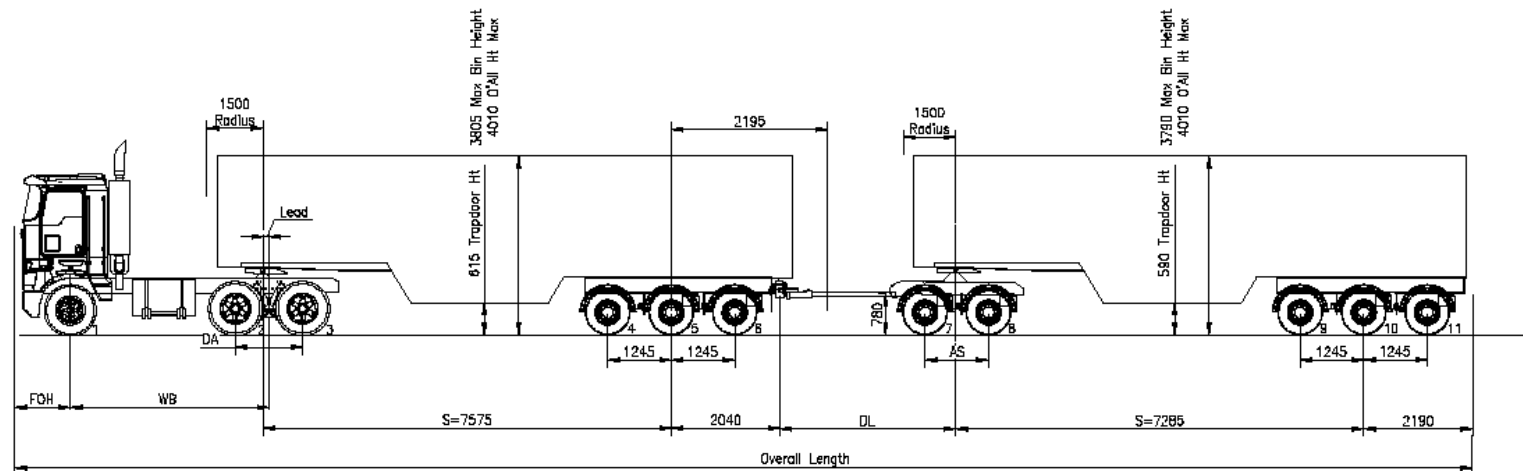
Exemptions	
ADR	Rule 43, Clause 6.2.2 (Drawbar length – Trailers) Rule 63, Clause 5.1 (Tow coupling location)
HV(MDL)NR	Schedule 6, Section 6 (Length – Trailer drawbars)
HV(VS)NR	Schedule 3, Section 29 (Attachment of couplings and drawbar eyes on road trains) Schedule 3, Section 31 (Tow coupling overhang on road trains)

ADR Australian Design Rules

HV(MDL)NR *Heavy Vehicle (Mass, Dimension and Loading) National Regulation*

HV(VS)NR *Heavy Vehicle (Vehicle Standards) National Regulation*

PRIME MOVER 1, 2, 3, 4, 5
TRAILER SET 1, 2



Prime Mover Dimensions					
Label	Make/Model	FOH	WB	DA	Lead
PM1	K200	1200	4605	1320	50
PM2	T659	1475	5522	1450	75
PM3	W900	1130	5580	1320	50
PM4	C509	1325	5775	1450	25
PM5	T659	1480	5500	1320	50

Dolly Dimensions		
Label	Drawbar Length (DL)	Axle Spread (AS)
Dolly 1	5120	1371
Dolly 2	5125	1385

Overall Length					
	PM1	PM2	PM3	PM4	PM5
Dolly 1	29965	31132	30870	31285	31140
Dolly 2	29970	31137	30875	31290	31145

ISS.	DESCRIPTION/LOCATION	CH/EA	DATE/APPD
A	Initial Release	-	09/02/22
B	Added Dolly 2	-	21/10/22
C	Added PM 2	-	13/12/22
D	Added PM3 & PM4	-	20/02/23
E	Added PM 5	-	07/08/23

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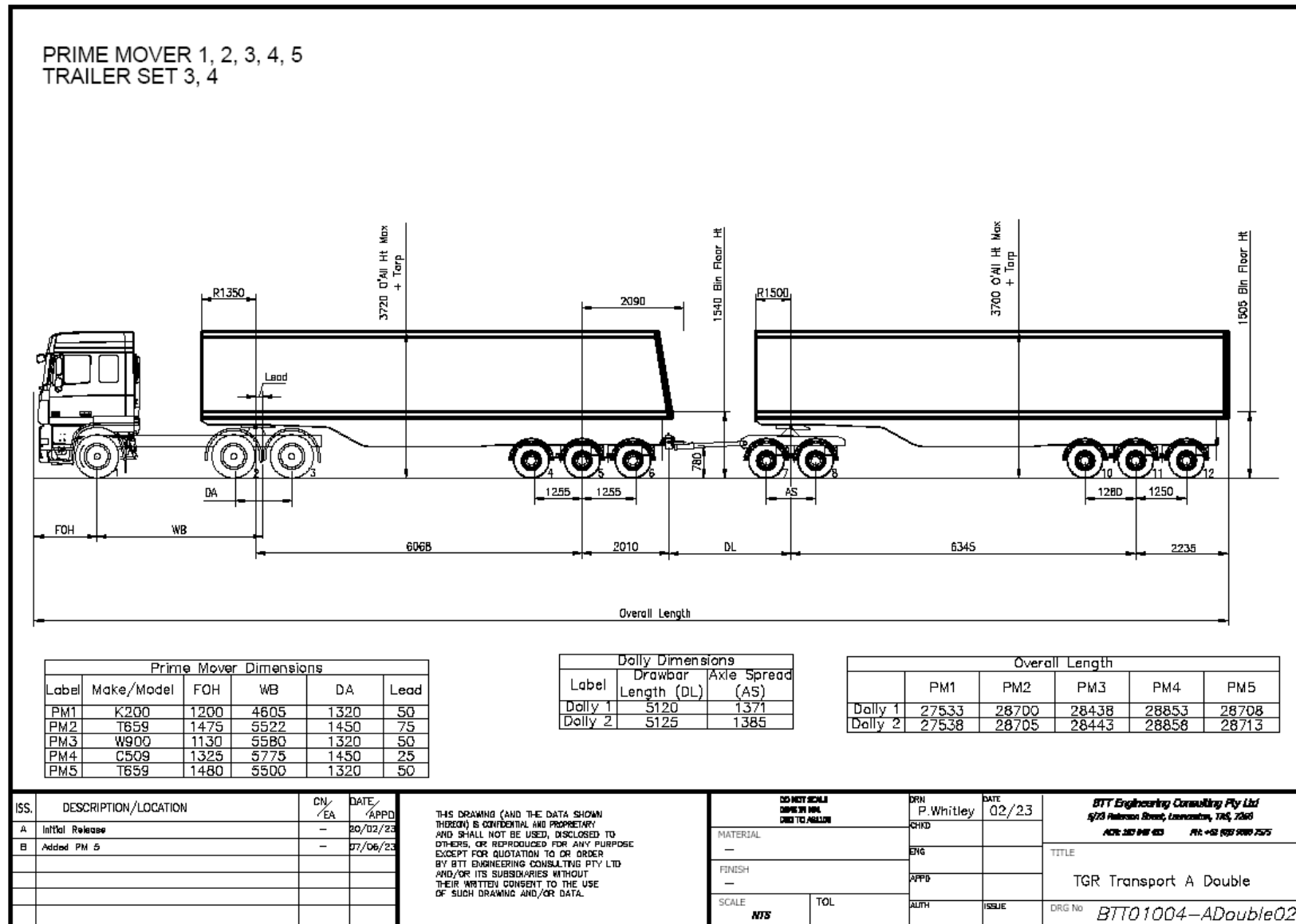
ISSUE
—

DATE
02/22

BITT Engineering Consulting Pty Ltd
3/73 Palmerston Street, Lismore, NSW, 2480
ACN: 110 948 433 ABN: 48 009 9508 7575

TITLE
TGR Transport A Double

DRG No
BITT01004-ADouble01



Approved tyre options – Variant 1 (Option 1)

Steer –

6.5t axle mass limit

- **11R22.5** (Load Index **149** or higher, single configuration)
- **295/80R22.5** (Load Index **152** or higher, single configuration)
- **315/80R22.5** (Load Index **156** or higher, single configuration)
- **385/65R22.5** (Load Index **158** or higher, single configuration)
- **305/70R22.5** (Load Index **150** or higher, single configuration)
- **315/70R22.5** (Load Index **152** or higher, single configuration)

6.0t axle mass limit

- **11R22.5** (Load Index **146** or higher, single configuration)

Drive –

- **11R22.5** (Load Index **142** or higher, dual configuration)
- **295/80R22.5** (Load Index **147** or higher, dual configuration)
- **315/80R22.5** (Load Index **150** or higher, dual configuration)
- **305/70R22.5** (Load Index **148** or higher, dual configuration)
- **275/70R22.5** (Load Index **141** or higher, dual configuration)

Trailer –

- **11R22.5** (Load Index **142** or higher, dual configuration)

Tyre load index and inflation pressure must be appropriate for the axle mass (inflation pressures must be within legal inflation limits)

Retread tyres are only permitted on the drive, dolly, and trailer axles.

Tyres listed herein are specific for PBS application number V220109.

A different list of tyres will apply for other combination types and different PBS application numbers.

Approved tyre options – Variant 1 (Option 2)

Steer –

6.5t axle mass limit

- **11R22.5** (Load Index **149** or higher, single configuration)
- **295/80R22.5** (Load Index **152** or higher, single configuration)
- **315/80R22.5** (Load Index **156** or higher, single configuration)
- **385/65R22.5** (Load Index **158** or higher, single configuration)
- **305/70R22.5** (Load Index **150** or higher, single configuration)
- **315/70R22.5** (Load Index **152** or higher, single configuration)

6.0t axle mass limit

- **11R22.5** (Load Index **146** or higher, single configuration)

Drive –

- **11R22.5** (Load Index **142** or higher, dual configuration)
- **295/80R22.5** (Load Index **148** or higher, dual configuration)

Trailer –

- **11R22.5** (Load Index **142** or higher, dual configuration)

Tyre load index and inflation pressure must be appropriate for the axle mass (inflation pressures must be within legal inflation limits)

Retread tyres are only permitted on the drive, dolly, and trailer axles.

Tyres listed herein are specific for PBS application number V220109.

A different list of tyres will apply for other combination types and different PBS application numbers.

Approved tyre options – Variant 2, Variant 3

Steer –

7.1t axle mass limit

- **11R22.5** (Load Index **152** or higher, single configuration)
- **295/80R22.5** (Load Index **152** or higher, single configuration)
- **305/70R22.5** (Load Index **152** or higher, single configuration)
- **315/70R22.5** (Load Index **152** or higher, single configuration)
- **315/80R22.5** (Load Index **152** or higher, single configuration)
- **385/65R22.5** (Load Index **152** or higher, single configuration)

6.5t axle mass limit

- **11R22.5** (Load Index **149** or higher, single configuration)
- **295/80R22.5** (Load Index **149** or higher, single configuration)
- **305/70R22.5** (Load Index **149** or higher, single configuration)
- **315/70R22.5** (Load Index **149** or higher, single configuration)
- **315/80R22.5** (Load Index **149** or higher, single configuration)
- **385/65R22.5** (Load Index **149** or higher, single configuration)

6.0t axle mass limit

- **11R22.5** (Load Index **146** or higher, single configuration)
- **295/80R22.5** (Load Index **146** or higher, single configuration)
- **305/70R22.5** (Load Index **146** or higher, single configuration)
- **315/70R22.5** (Load Index **146** or higher, single configuration)
- **315/80R22.5** (Load Index **146** or higher, single configuration)
- **385/65R22.5** (Load Index **146** or higher, single configuration)

Drive –

- **11R22.5** (Load Index **140** or higher, dual configuration)
- **295/80R22.5** (Load Index **140** or higher, dual configuration)

Trailer –

- **11R22.5** (Load Index **140** or higher, dual configuration)

Tyre load index and inflation pressure must be appropriate for the axle mass (inflation pressures must be within legal inflation limits)

Retread tyres are only permitted on the drive, dolly, and trailer axles.

Tyres listed herein are specific for PBS application number V220109.

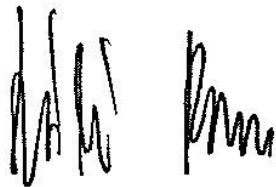
A different list of tyres will apply for other combination types and different PBS application numbers.

Axle spacings for as-built combinations - A-double (1-2-3-2-3)

PM	TS	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	OAL
1	1	3945	1320	5620	1245	1245	5229	1371	5355	1245	1245	29965
1	2	3945	1320	5620	1245	1245	5227	1385	5347	1245	1245	29970
1	3	3945	1320	4103	1255	1255	5189	1371	4409	1250	1250	27533
1	4	3945	1320	4103	1255	1255	5187	1385	4403	1250	1250	27538
2	1	4797	1450	5530	1245	1245	5229	1371	5355	1245	1245	31132
2	2	4797	1450	5530	1245	1245	5227	1385	5347	1245	1245	31137
2	3	4797	1450	4013	1255	1255	5189	1371	4409	1250	1250	28700
2	4	4797	1450	4013	1255	1255	5187	1385	4403	1250	1250	28705
3	1	4920	1320	5620	1245	1245	5229	1371	5355	1245	1245	30870
3	2	4920	1320	5620	1245	1245	5227	1385	5347	1245	1245	30875
3	3	4920	1320	4103	1255	1255	5189	1371	4409	1250	1250	28438
3	4	4920	1320	4103	1255	1255	5187	1385	4403	1250	1250	28443
4	1	5050	1450	5580	1245	1245	5229	1371	5355	1245	1245	31285
4	2	5050	1450	5580	1245	1245	5227	1385	5347	1245	1245	31290
4	3	5050	1450	4063	1255	1255	5189	1371	4409	1250	1250	28853
4	4	5050	1450	4063	1255	1255	5187	1385	4403	1250	1250	28858
5	1	4840	1320	5620	1245	1245	5229	1371	5355	1245	1245	31140
5	2	4840	1320	5620	1245	1245	5227	1385	5347	1245	1245	31145
5	3	4840	1320	4103	1255	1255	5189	1371	4409	1250	1250	28708
5	4	4840	1320	4103	1255	1255	5187	1385	4403	1250	1250	28713

Declaration

I, Laszlo Bruzsa Chief Engineer, delegate of the National Heavy Vehicle Regulator, approve this PBS Vehicle Approval PBS–V220109 –VA13923.



Laszlo (Les) Bruzsa
Chief Engineer
National Heavy Vehicle Regulator
Dated: 16/06/23

Revision table

N	VA	Vers	Brief description	Date
1	10747	1A	First issue.	03/03/22
2	10747	2A	Adding 2x trailers (additional VINs listed in bold).	02/11/22
3	12333	1A	Adding 1x dolly to VA10747 (additional VINs listed in bold). Correct variant reference to 'Original'.	09/11/22
4	12598	1A	Adding 1x prime mover to VA12333 (additional VINs listed in bold).	03/01/23
5	13134	1A	Adding 1x prime mover to VA12598 (additional VINs listed in bold).	15/03/23
6	13805	1A	Adding 1x prime mover, 2x trailers to VA13134 (additional VINs listed in bold).	08/06/23
7	13923	1A	Adding 1x prime mover to VA13805 (additional VINs listed in bold).	12/06/23
8	13923	1B	Updating PM5 GCM.	16/06/23

Important information

The driver must keep in the driver's possession a copy of this Vehicle Approval and be able to produce it for inspection by compliance officers. Penalties can apply.

If changes or modifications are required, these are limited to the specifications contained in the relevant PBS Design Approval and the Application for Design Approval Part A and B. Contact the applicant (see the cover page on this document) for information related to the allowed specifications.

A change of components and/or dimensions must be certified by an approved [PBS Certifier](#) and an updated version of this Vehicle Approval must be obtained. A change of tyres, outside of the list contained on this Vehicle Approval, also requires approval but will not require an inspection by a PBS Certifier.

If VA contains multiple tyre option tables, all tyre selections must be chosen from the same tyre options table. Tyres from different tyre options tables are not interchangeable.

Road access

The PBS Vehicle Approval is not an authorisation to access the road network. You must comply with the relevant Notice or obtain an access permit. To apply for an access permit, visit the [NHVR Portal](#).

For more information on PBS Notices visit:

[National Class 2 PBS Level 1 & 2a Truck and Dog Trailer Authorisation Notice 2021 \(No.1\)](#)

[National Class 2 Performance Based Standards \(High Productivity\) Authorisation Notice](#)

[National Class 2 Performance Based Standards \(Tier 1\) Authorisation Notice 2021](#)

If you add vehicles to your PBS Vehicle Approval, the PBS Vehicle Approval number may change depending on the new vehicles added. If the PBS Vehicle Approval number has changed, and your access permit references a PBS Vehicle Approval number, your access permit will need to be amended to reflect the latest Vehicle Approval number. Note that most truck and dog access permits will not reference a PBS Vehicle Approval number and therefore changes to the Vehicle Approval do not require an update to the access permit. For more information, watch [Adding vehicles to a PBS Vehicle Approval](#) video on our YouTube channel.

For more information, please visit our website at www.nhvr.gov.au or call 13 NHVR (13 64 87).

For queries relating to this document please contact the PBS Operations Team at pbs@nhvr.gov.au.

Manage your PBS Vehicle Approval

Please visit our [website](#) to view a list of available options and associated forms to manage your PBS Vehicle Approval.