

Performance-Based Standards (PBS) Vehicle Approval

Heavy Vehicle National Law Section 23

Heavy Vehicle (General) National Regulation Section 17

This is not an authorisation to access the road network.

You must comply with the relevant Notice or if required, obtain an access permit.

18 February 2022

Ref No: PBS – V170819 – VA10671

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Application Number V170819. The combination(s) listed herein have been transferred from VA10526.

Applicant details		Operator	
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Application Number	V170819	Vehicle	3-axle truck 4-axle dog
Load	Quarry and Bulk; Bin	Length (mm)	≤ 19700
Assessor	Daniel Nolan	Height (mm)	≤ 4300

Combination Matrix

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

New VINs added in this VA are listed in bold.

Truck 1	Truck 2
YV5XG40D9KD208550 YV5XG40D3KD208771 YV5XG40D2KD209930 YV5XG40D0LD211242	YV5XG40DXMD213338

Trailer 1	Trailer 2	Trailer 3
6V9T24STEKC075013 6V9T24STEKC075020	6V9T24STEKC075047 6V9T24STELC075032	6V9T24STEMC075067

	Trailer 1	Trailer 2	Trailer 3
Truck 1	ATC0467-L-01 Volvo Variant Table 1, 3	ATC0467-L-01 Volvo Variant Table 1, 3	ATC0467-L-01 Volvo Variant Table 1, 3
Truck 2	ATC0467-L-01 Volvo Variant Table 1, 3	ATC0467-L-01 Volvo Variant Table 2, 3	ATC0467-L-01 Volvo Variant Table 2, 3

Table 1
Truck 1 and Trailer 1, 2, 3
Truck 2 and Trailer 1

Mass Limits	Level 1		Axle Group Masses	Level 1
				GML
GML (t)	50.35		Steer (t)	6.5
CML (t)	NA		Drive (t)	16.5
HML (t)	NA		Trailer Front (t)	13.75
Bridge Assessment	Tier 1		Trailer Rear (t)	13.75
			The mass across axle groups is limited to -	
			Axle Groups	GML
			3 to 4	27.35

Table 2
Truck 2 and Trailer 2, 3

Mass Limits	Level 1		Axle Group Masses	Level 1
				GML
GML (t)	50.4		Steer (t)	6.5
CML (t)	NA		Drive (t)	16.5
HML (t)	NA		Trailer Front (t)	13.75
Bridge Assessment	Tier 1		Trailer Rear (t)	13.75
			The mass across axle groups is limited to -	
			Axle Groups	GML
			3 to 4	27.40

Table 3
Truck 1, 2 and Trailer 1, 2, 3

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	56.0	Steer (t)	6.5	6.5	6.5
CML (t)	57.5	Drive (t)	16.5	17.0	17.0
HML (t)	57.5	Trailer Front (t)	16.5	17.0	17.0
Bridge Assessment	Tier 1	Trailer Rear (t)	16.5	17.0	17.0

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)

Volvo Variant	Heaped payload	Water level payload
Truck	NA	2.920
Trailer		3.000

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. 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.
7. Higher Mass Limits (HML) requirements:
 - for tandem axles groups, road friendly suspensions.
8. When operating at Level 1, there is a minimum mass requirement for the drive axle group. The mass on the drive axle group must be at least 26% of the total combination mass e.g. at 50.5t total combination mass, $50.5 \times 0.26 = 13.1\text{t}$ is required on the drive axle group. This clause does not apply to an unladen vehicle.
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 56t total combination mass, $56 \times 0.197 = 11\text{t}$ is required on the drive axle group. This clause does not apply to an unladen vehicle.

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	NA
HV(MDL)NR	Schedule 6, Section 3 (Length – General)
HV(VS)NR	NA

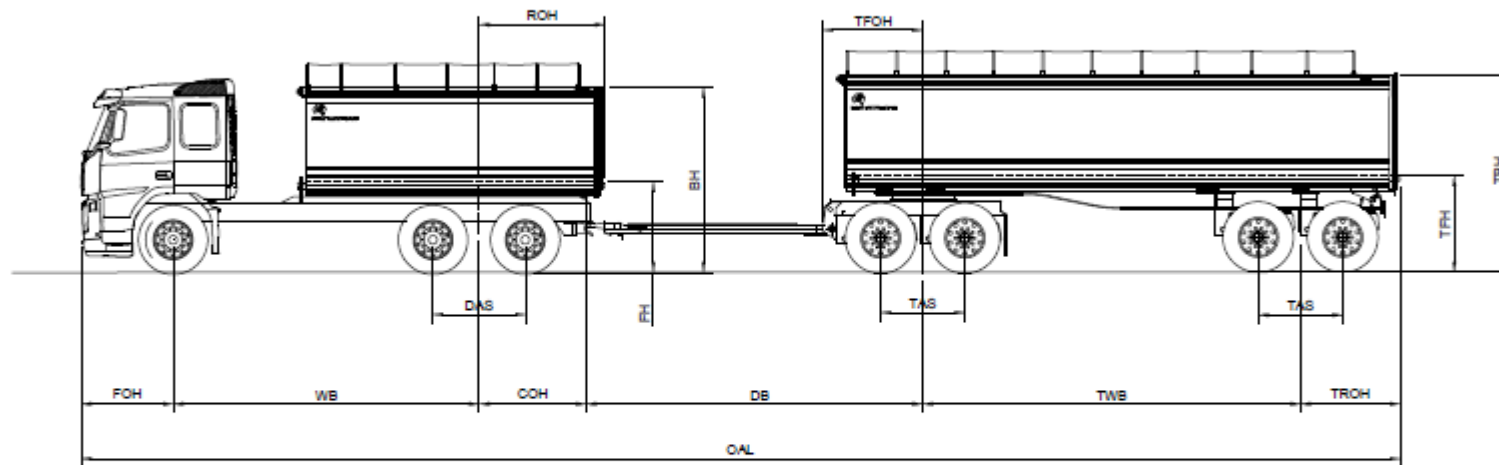
ADR Australian Design Rules

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

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

ATC0467-L-01 VOLVO VARIANT

TRUCK 1, 2
TRAILER 1, 2, 3



TRUCK	FOH	WB	DAS	COH	ROH	FH	BH
1	1365	4585	1370	1570	1890	1350	2900
2	1365	4585	1370	1585	1850	1370	2920
TRAILER	TFOH	DB	TWB	TROH	TAS	TFH	TBH
1	R1825	5000	5600	1530	1250	1420	2970
2	R1825	4990	5600	1510	1250	1420	2970
3	R1840	4990	5620	1550	1250	1420	2970

OAL		
TRUCK	TRAILER	OAL
1	1	19650
1	2	19620
1	3	19680
2	1	19665
2	2	19635
2	3	19695

Details of truck(s) or prime mover(s) – Truck 1

Make	Volvo
Model	FM
VIN(s)	YV5XG40D9KD208550 YV5XG40D3KD208771 YV5XG40D2KD209930 YV5XG40D0LD211242
Engine make/ model/ rating	Volvo / D13C-540 540hp / 2,600Nm ADR80/03
Transmission make/ model	Volvo / AT2612F
Differential make/ model/ FD ratio	Volvo / RTS2370B / FDR – 3.09:1
Suspension make/ model (Steer)	Volvo Leaf Spring 7.1t
Suspension make/ model (Drive)	Volvo / RADD-GR RSTAB3 RF2072
Tyres make/ size/ model (Steer)	295/80R22.5 Bridgestone R150 II 295/80R22.5 Hankook AH31
Tyres make/ size/ model (Drive)	11R22.5 Bridgestone M766
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Tow coupling make/ D rating	Ringfeder 303aus – 320kN / 34.00 tonne
Wheelbase (mm)	4,585
Vehicle height (Measured from the ground) (mm)	2,900
Number of axles	3
ADR category	NC
GVM (kg)	28,100
GCM (kg)	70,000
Comments/ notes:	

Details of truck(s) or prime mover(s) – Truck 2

Make	Volvo
Model	Volvo FM 6X4
VIN(s)	YV5XG40DXMD213338
Engine make/ model/ rating	Volvo D13C – 540HP
Transmission make/ model	Volvo AT2612F
Differential make/ model/ FD ratio	Volvo RTS2370B – 3.09
Suspension make/ model (Steer)	Volvo Leaf Spring 7.1T
Suspension make/ model (Drive)	Volvo RADD-GR (RF2072)
Tyres make/ size/ model (Steer)	385/65R22.5 Bridgestone M748
Tyres make/ size/ model (Drive)	11R22.5 Bridgestone M766
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Tow coupling make/ D rating	Ringfeder 50 Automatic Coupling D=320kN
Wheelbase (mm)	4,585
Vehicle height (Measured from the ground) (mm)	3,275
Number of axles	3
ADR category	NC
GVM (kg)	28,100
GCM (kg)	70,000
Comments/ notes:	

Details of trailer(s) or dolly(s) – Trailer 1

Type	Drawbar Trailer
Make	Shephard Transport Equipment
Model	4 Axle Tipper Dog
VIN(s)	6V9T24STEKC075013 6V9T24STEKC075020
Suspension make/ model	1 st bogie - York / Duratrac 280RH RF2001 2 nd bogie - York / Duratrac 360RH RF2001
Tyres make/ size/ model	11R22.5 Bridgestone R168 11R22.5 Dunlop SP430
Drawbar length (mm)	5000
Coupling make/ D rating	Ballrace KHITCH 90S-1000 / 190kN
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS / EBS on 1 st & 3 rd Axles
Wheelbase (mm)	5,600
Vehicle height (Measured from the ground) (mm)	2,970
Number of axles	4
ADR category	TD
ATM (kg)	34,000
Comments/ notes:	

Details of trailer(s) or dolly(s) – Trailer 2a

Type	4 Axle Dog Trailer
Make	Shephard Transport Equipment
Model	A4DOG-300T
VIN(s)	6V9T24STEKC075047
Suspension make/ model	Dolly – Hendrickson Intraax AAL230 12" RH RF2008 Rear – Hendrickson Intraax AAT230 15" RH RF2008
Tyres make/ size/ model	11R22.5 Bridgestone R168
Drawbar length (mm)	4,990
Coupling make/ D rating	KHitch 90S/1000 Ballrace D=190kN
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Wheelbase (mm)	5,600
Vehicle height (Measured from the ground) (mm)	2,970
Number of axles	4
ADR category	TD
ATM (kg)	35,000
Comments/ notes:	

Details of trailer(s) or dolly(s) – Trailer 2b

Type	4 Axle Dog Trailer
Make	Shephard Transport Equipment
Model	A4DOG-300T
VIN(s)	6V9T24STELC075032
Suspension make/ model	Dolly – Hendrickson Intraax AAL230 12" RH RF2008 Rear – Hendrickson Intraax AAT230 15" RH RF2008
Tyres make/ size/ model	11R22.5 Bridgestone R168
Drawbar length (mm)	4,990
Coupling make/ D rating	Jost KDKR4100010K D=160kN
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Wheelbase (mm)	5,600
Vehicle height (Measured from the ground) (mm)	2,970
Number of axles	4
ADR category	TD
ATM (kg)	35,000
Comments/ notes:	

Details of trailer(s) or dolly(s) – Trailer 3

Type	4-Axle Dog Trailer
Make	Shephard
Model	A4Dog 300T
VIN(s)	6V9T24STEMC075067
Suspension make/ model	Front – Hendrickson Intraax AAL230 (RF2008) Rear – Hendrickson Intraax AAT230 (RF2008)
Tyres make/ size/ model	11R22.5 Bridgestone R168
Drawbar length (mm)	4,990
Coupling make/ D rating	Ballrace
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Wheelbase (mm)	5,620
Vehicle height (Measured from the ground) (mm)	3,325
Number of axles	4
ADR category	TD
ATM (kg)	35,000
Comments/ notes:	

Approved tyre options – Option 1 (Volvo Variant)

Steer –

- non-brand specific 22.5-inch rim diameter

Drive –

- non-brand specific 22.5-inch rim diameter

Trailer –

- **11R22.5** Advance GL671A, Boto BT370, Bridgestone, Continental HT3, Double Star HR169, HR268, Dunlop, Firestone T559, Goodride AS678, Goodyear, Hankook TH22, Haulmax ATT101, ATT202, Michelin, O'Green AG168, Triangle TR668
- **275/70R22.5** Bridgestone, Firestone T559, Kumho KRT01, Michelin, O'Green AG516

Retread tyres are permitted on the steer and drive axles.

Retread tyres are permitted on the trailer axles provided they are certified by the manufacturer that its performance is equivalent to a new tyre.

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V170819.

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

Approved tyre options – Option 2 (Volvo Variant)

Steer –

- non-brand specific 22.5-inch rim diameter

Drive –

- **295/80R22.5** Bridgestone, Dunlop, Goodyear, Michelin
- **11R22.5** Double Star HR169, Triangle TR668, TR688

Trailer –

- non-brand specific 22.5-inch rim diameter

Retread tyres are permitted on the steer and trailer axles.

Retread tyres are permitted on the drive axles provided they are certified by the manufacturer that its performance is equivalent to a new tyre.

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V170819.

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

Approved tyre options – Option 3 (Volvo Variant)

Steer –

- non-brand specific 22.5-inch rim diameter

Drive and Trailer –

DRIVE TYRES	TRAILING UNIT TYRES																															
	Advance GL274A 11R22.5	Advance GL671A 11R22.5	Aeolus ADC53 11R22.5	Aeolus HN08 11R22.5	Aeolus HN266 11R22.5	Austyre Raptor 11R22.5	Boto BT168 11R22.5	Bridgestone 11R22.5	Chao Yang CM333 11R22.5	Continental HD HYBRID 295/80R22.5	Continental HDC1 295/80R22.5	Continental HDR2+ 11R22.5	Continental HSC1 11R22.5	Continental HTR 11R22.5	Dunlop 275/70R22.5	GT Radial GSR225 295/80R22.5	GT Radial GT276 11R22.5	General Tire RA 11R22.5	GiTi GAR827 11R22.5	GiTi GSR225 295/80R22.5	GiTi GT276 11R22.5	Golden Crown AZ126 11R22.5	Goodride CM958 295/80R22.5	Goodride MD738 11R22.5	Goodyear 11R22.5	Hankook AH11 295/80R22.5	Hankook AH22 11R22.5	Hankook AH22+ 295/80R22.5	Hankook AH22R 295/80R22.5			
Advance GL274A 11R22.5																																
Advance GL671A 11R22.5	•			•	•	•																										
Aeolus ADC53 11R22.5																																
Aeolus HN08 11R22.5																																
Aeolus HN266 11R22.5																																
Austyre Raptor 11R22.5																																
Boto BT168 11R22.5																																
Bridgestone 11R22.5	•	•		•	•	•																										
Chao Yang CM333 11R22.5				•	•	•																										
Continental HD HYBRID 295/80R22.5	•			•	•	•																										
Continental HDC1 295/80R22.5				•		•																										
Continental HDR2+ 11R22.5				•		•																										
Continental HSC1 11R22.5				•		•																										
Continental HTR 11R22.5				•		•																										
Dunlop 275/70R22.5				•		•																										
GT Radial GSR225 295/80R22.5																																
GT Radial GT276 11R22.5																																
General Tire RA 11R22.5																																
GiTi GAR827 11R22.5																																
GiTi GSR225 295/80R22.5																																
GiTi GT276 11R22.5																																
Golden Crown AZ126 11R22.5																																
Goodride CM958 295/80R22.5																																
Goodride MD738 11R22.5																																
Goodyear 11R22.5																																
Hankook AH11 295/80R22.5																																
Hankook AH22 11R22.5																																
Hankook AH22+ 295/80R22.5																																
Hankook AH22R 295/80R22.5																																

A cell that is denoted by a '•' indicates a permissible combination of drive and trailing unit tyres. Cells that are blank are not permitted.

Retread tyres are permitted on the steer axle.

Retread tyres are permitted on the drive and trailer axles, provided they are certified by the manufacturer that its performance is equivalent to a new tyre.

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V170819.

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



Approved tyre options – Option 3 (Volvo Variant)

Steer –

- non-brand specific 22.5-inch rim diameter

Drive and Trailer –

		TRAILING UNIT TYRES																																					
		Hankook AM06 11R22.5	Hankook TH06 11R22.5	Hankook TH22 275/70R22.5	Hankook TM22 11R22.5	Haulmax ATT101 275/70R22.5	Haulmax ATT103 11R22.5	Hifly HARS15 275/70R22.5	Hifly HH104 11R22.5	Hifly HH301 11R22.5	Hilo 100 11R22.5	Hilo 660 11R22.5	Jinyu JY601 11R22.5	Kumho KR103 11R22.5	Maxxis MT212 11R22.5	Maxxis UR288 11R22.5	Maxxis UR288 275/70R22.5	NIPon AZ126 11R22.5	Semperit M422 11R22.5	Sportrak BYS98 11R22.5	Toyo M122 11R22.5	Triangle TR656 275/70R22.5	Triangle TR666 11R22.5	Triangle TRS01 11R22.5	Westlake CR926D 11R22.5	Westlake MD738 11R22.5	Windpower HN06 11R22.5	Windpower HN08 11R22.5	Windpower HN266 11R22.5	Windpower WDR23 11R22.5	Windpower WGB20 275/70R22.5	Windpower WGB08 11R22.5	Windpower WGC28 275/70R22.5	Windpower WSL06 11R22.5	Yokohama RYS88 11R22.5				
DRIVE TYRES	Advance GL274A 11R22.5																																						
	Advance GL671A 11R22.5	•			•	•	•	•	•	•	•	•	•	•			•	•			•	•	•			•							•		•	•			
	Aeolus ADC53 11R22.5				•	•																			•	•										•	•		
	Aeolus HN08 11R22.5				•	•																			•	•										•	•		
	Aeolus HN266 11R22.5				•	•	•	•	•	•	•	•					•	•			•	•	•			•	•								•	•			
	Austyre Raptor 11R22.5				•																				•											•			
	Boto BT168 11R22.5				•																				•	•										•			
	Bridgestone 11R22.5			•	•	•	•	•	•	•	•	•	•	•				•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	Chao Yang CM333 11R22.5				•	•	•	•	•	•	•	•	•	•				•	•			•	•	•			•	•						•		•	•		
	Continental HD HYBRID 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Continental HDC1 295/80R22.5				•	•			•	•	•	•	•	•				•				•	•	•			•	•						•		•	•		
	Continental HDR2+ 11R22.5				•				•	•	•	•	•	•				•				•	•	•			•	•						•		•	•		
	Continental HSC1 11R22.5				•	•			•	•	•	•	•	•				•				•	•	•			•	•							•		•	•	
	Double Coin RLB1 11R22.5				•	•			•	•	•	•	•	•				•				•	•	•			•	•							•		•	•	
	Doublestar HR268 11R22.5		•	•	•	•	•	•	•	•	•	•	•	•				•	•			•	•	•			•	•						•		•	•		
	Dunlop 11R22.5		•	•	•	•	•	•	•	•	•	•	•	•				•	•			•	•	•			•	•						•		•	•		
	Falken BI830 11R22.5															•		•	•			•	•	•			•	•							•		•	•	
	GT Radial GSR225 295/80R22.5				•	•																•	•				•								•		•	•	
	GT Radial GT276 11R22.5				•	•			•	•	•	•						•				•	•				•								•		•	•	
	General Tire RA 11R22.5				•	•			•	•	•	•						•				•	•				•								•		•	•	
	GiTi GAR827 11R22.5				•	•			•	•	•	•										•	•				•									•		•	•
	GiTi GSR225 295/80R22.5				•	•																	•	•			•									•		•	•
	GiTi GT276 11R22.5				•	•			•	•	•	•										•	•				•									•		•	•
	Golden Crown AZ126 11R22.5																					•	•				•										•		•
	Goodride CM958 295/80R22.5				•	•			•	•	•	•										•	•				•									•		•	•
	Goodride MD738 11R22.5		•	•	•	•	•	•	•	•	•	•	•	•				•	•			•	•				•									•		•	•
	Goodyear 11R22.5		•	•	•	•	•	•	•	•	•	•	•	•				•	•			•	•				•									•		•	•
	Hankook AH11 295/80R22.5				•	•					•												•				•											•	
Hankook AH22 11R22.5				•	•			•	•	•	•						•	•			•	•				•									•		•	•	
Hankook AH22+ 295/80R22.5				•	•	•	•	•	•	•	•			•			•	•		•	•				•										•		•	•	
Hankook AH22R 295/80R22.5				•	•	•	•	•	•	•	•			•			•	•		•	•				•										•		•	•	

A cell that is denoted by a '•' indicates a permissible combination of drive and trailing unit tyres. Cells that are blank are not permitted.

Retread tyres are permitted on the steer axle.

Retread tyres are permitted on the drive and trailer axles, provided they are certified by the manufacturer that its performance is equivalent to a new tyre.

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V170819.

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

Approved tyre options – Option 3 (Volvo Variant)

Steer –

- non-brand specific 22.5-inch rim diameter

Drive and Trailer –

DRIVE TYRES	TRAILING UNIT TYRES																							
	Advance GL274A 11R22.5	Aeolus ASR30 275/70R22.5	Aeolus HN06 11R22.5	Aeolus HN08 11R22.5	Aeolus HN266 11R22.5	Auslyre ST01 11R22.5	BF Goodrich Route Control S 11R22.5	BF Goodrich ST270 11R22.5	Boto BT168 11R22.5	Chao Yang CR906 275/70R22.5	Chao Yang CR926D 11R22.5	Chao Yang CR960A 11R22.5	Chao Yang CR976A 275/70R22.5	Continental HSC1 11R22.5	Continental HTR 11R22.5	Dunlop 275/70R22.5	GT Radial GT276 11R22.5	GT Radial GT276 275/70R22.5	GT Radial GT279 275/70R22.5	General Tire RA 11R22.5	GITI GAR827 11R22.5	GITI GAR827 275/70R22.5	GITI GT276 11R22.5	GITI GT276 275/70R22.5
	Golden Crown AZ126 11R22.5	Goodride CB972 11R22.5	Goodride CR926D 11R22.5	Goodride CR950A 11R22.5	Goodride CR976A 275/70R22.5	Goodyear 275/70R22.5	Hankook AH22 11R22.5																	
Hankook AH33 295/80R22.5	•																							
Hankook AL10 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hankook AM06 11R22.5																								
Hankook AM06 295/80R22.5			•		•																			
Hankook DH16 11R22.5																								
Hankook DL10 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hankook DM03 11R22.5																								
Hankook DM09 11R22.5			•		•					•	•	•	•	•	•	•								
Hankook Z35A 11R22.5																								
Haulmax ATT101 11R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Haulmax ATT202 11R22.5			•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Haulmax ATT307 11R22.5			•		•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hifly HH104 11R22.5			•		•																			
Hifly HH301 11R22.5			•		•																			
Hifly HH308A 11R22.5			•		•																			
Hifly HH312 11R22.5			•		•																			
Hilo 660 11R22.5																								
Jinyu JY601 11R22.5			•		•																			
Loadrunner LR835D 11R22.5																								
Maxxis UR200 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Maxxis UR288 295/80R22.5																								
Michelin 11R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
NiPon AZ126 11R22.5					•																			
O'Green AG677 11R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Toyo M122 11R22.5			•		•																			
Triangle TR666 11R22.5			•		•																			
Triangle TRS01 11R22.5			•	•	•																			
Westlake AS678 11R22.5					•																			
Westlake MD738 11R22.5			•		•																			
Windpower HN08 11R22.5					•																			
Windpower HN266 11R22.5			•		•																			
Windpower WDR23 11R22.5			•		•																			
Windpower WGC08 11R22.5					•																			

A cell that is denoted by a '•' indicates a permissible combination of drive and trailing unit tyres. Cells that are blank are not permitted.

Retread tyres are permitted on the steer axle.

Retread tyres are permitted on the drive and trailer axles, provided they are certified by the manufacturer that its performance is equivalent to a new tyre.

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V170819.

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



Approved tyre options – Option 3 (Volvo Variant)

Steer –

- non-brand specific 22.5-inch rim diameter

Drive and Trailer –

	TRAILING UNIT TYRES																							
	Hankook AM06 11R22.5	Hankook TH06 11R22.5	Hankook TH22 275/70R22.5	Hankook TM22 11R22.5	Haulmax ATT101 275/70R22.5	Haulmax ATT103 11R22.5	Hifly HARS15 275/70R22.5	Hifly HH104 11R22.5	Hifly HH301 11R22.5	Hilo 100 11R22.5	Hilo 660 11R22.5	Jinyu JY601 11R22.5	Kunlun KR703 11R22.5	Maxxis MT212 11R22.5	Maxxis UR288 11R22.5	Maxxis UR288 275/70R22.5	NiPon AZ126 11R22.5	Semperit M422 11R22.5	Sportrak BYS98 11R22.5	Toyo M122 11R22.5	Triangle TR656 275/70R22.5	Triangle TR666 11R22.5	Triangle TRS01 11R22.5	Westlake CR926D 11R22.5
DRIVE TYRES																								
	Hankook AM06 11R22.5	Hankook TH06 11R22.5	Hankook TH22 275/70R22.5	Hankook TM22 11R22.5	Haulmax ATT101 275/70R22.5	Haulmax ATT103 11R22.5	Hifly HARS15 275/70R22.5	Hifly HH104 11R22.5	Hifly HH301 11R22.5	Hilo 100 11R22.5	Hilo 660 11R22.5	Jinyu JY601 11R22.5	Kunlun KR703 11R22.5	Maxxis MT212 11R22.5	Maxxis UR288 11R22.5	Maxxis UR288 275/70R22.5	NiPon AZ126 11R22.5	Semperit M422 11R22.5	Sportrak BYS98 11R22.5	Toyo M122 11R22.5	Triangle TR656 275/70R22.5	Triangle TR666 11R22.5	Triangle TRS01 11R22.5	Westlake CR926D 11R22.5
Hankook AH33 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hankook AL10 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hankook AM06 11R22.5																								
Hankook AM06 295/80R22.5																								
Hankook DH16 11R22.5																								
Hankook DL10 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hankook DM03 11R22.5																								
Hankook DM09 11R22.5																								
Hankook Z35A 11R22.5																								
Haulmax ATT101 11R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Haulmax ATT202 11R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Haulmax ATT307 11R22.5																								
Hifly HH104 11R22.5																								
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Loadrunner LR835D 11R22.5																								
Maxxis UR200 295/80R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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Michelin 11R22.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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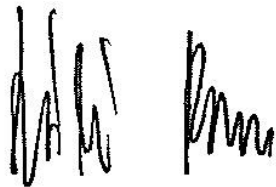
Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V170819.

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

Declaration

I, Laszlo Bruzsa Chief Engineer, delegate of the National Heavy Vehicle Regulator, approve this PBS Vehicle Approval PBS–V170819 –VA10671.



Laszlo (Les) Bruzsa

Chief Engineer

National Heavy Vehicle Regulator

Dated: 18/02/22

Revision table

N	VA	Vers	Brief description	Date
1	10671	1A	Change of Company name from VA10526.	18/02/22

General access for a specified PBS vehicle

The vehicle combination(s) listed in this PBS Vehicle Approval qualify for general access to the road network under the *specified PBS vehicle* provisions of the Heavy Vehicle National Law. A specified PBS vehicle must comply with all applicable requirements of Schedule 1 of the *Heavy Vehicle (Mass, Dimension and Loading) National Regulation* (HV(MDL)NR).

Specified PBS vehicle mass limits

1. The maximum allowable mass of a specified PBS vehicle is the lesser of the maximum PBS Level 1 GML stated in this Vehicle Approval and the relevant mass limit prescribed in Part 1, section 2, Schedule 1 of the HV(MDL)NR.
2. The maximum allowable mass of an axle group on a specified PBS vehicle is the lesser of the maximum PBS Level 1 GML axle group mass limit stated in this Vehicle Approval and the axle group mass limit prescribed in “Table 1—Axle mass limits table” in Schedule 1 of the HV(MDL)NR.
3. The maximum allowable mass between any two axles or axle groups on a specified PBS vehicle is the relevant prescribed mass limit in “Table 2—Axle spacing mass limits general table” in Schedule 1 of the HV(MDL)NR.

Specified PBS vehicle operating conditions

1. When operating as a general access vehicle, a specified PBS vehicle must comply with all operating conditions of its Vehicle Approval that apply at Level 1. This includes payload heights, the drive axle mass requirement, approved tyre options and all operating conditions that do not specify a level of access.
2. The regulation includes a requirement about towing ratios. Loading and unloading must be managed so that the trailer mass does not exceed the mass of the towing vehicle.

For more information

For more information visit our [PBS vehicle access permit page](#) under Access management.

Disclaimer

The information on this page is general guidance only and does not constitute legal advice. Consider whether you require Independent legal advice to address your particular circumstances.

Important information

As per Heavy Vehicle National Law Section 153, 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 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.

Road access

This is not an authorisation to access the road network. You must comply with the relevant Notice or obtain an access permit.

Please note that if you add vehicles to a PBS Vehicle Approval you will need to update the access permit to reflect the latest Vehicle Approval. If the new vehicles have different masses or dimensions to what is already approved, the NHVR will have to seek Road Manager consent again; which may extend the time required to issue the new permit.

For more information on the PBS Truck and Dog Notice visit [National Class 2 PBS level 1 and 2A Truck and Dog Trailer Authorisation Notice 2021](#).

To apply for an access permit, visit the [NHVR Portal](#). You must supply a route ID when applying for an access permit. Use Route Planner to obtain your route ID, you can do this as part of the permit application process in the [NHVR Portal](#).

For further assistance 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 Coordinator at pbs@nhvr.gov.au.

Transfer of Vehicle Approval

When applying for an access permit for a PBS vehicle, a PBS Vehicle Approval must be in the name of the company that operates the vehicle on the road.

If/ when a PBS combination is sold, the PBS Vehicle Approval has to be transferred across to the new owner.

To transfer a PBS Vehicle Approval to a new owner, use a [PBS Vehicle Approval Transfer Application form](#).