

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.

19 June 2018

Ref No: PBS – V180307 – VA4990 – Muscat Trailers / Multi Quip Transport – v1

This PBS Vehicle Approval modifies any previously issued approval for the vehicles listed herein operating under Application Number V180307.

Applicant details	Meng Bun Doung Muscat Trailers 7 Graham Hill Rd Narellan DC NSW 2567	Operator	Multi Quip Transport 260 Tenth Ave Austral NSW 2179
-------------------	---	----------	---

Application Number	V180307	Vehicle	A-Double (2-2-2)
Load	Quarry and Bulk	Length (mm)	≤ 25800
Assessor	Hans Prem	Height (mm)	≤ 4300

Mass Limits	Level 2
GML (t)	72.5
CML (t)	74.5
HML (t)	74.5
Bridge Assessment	Tier 3

Axle Group Masses	Level 2	
	GML	CML HML
Steer (t)	6.5	6.5
Drive (t)	16.5	17.0
Lead Trailer (t)	16.5	17.0
Dolly (t)	16.5	17.0
Rear Trailer (t)	16.5	17.0

Mass Limits	Level 2
GML (t)	65.15
CML (t)	67.15
HML (t)	67.15
Bridge Assessment	Tier 1

Axle Group Masses	Level 2	
	GML	CML HML
Steer (t)	6.5	6.5
Drive (t)	16.5	17.0
Lead Trailer (t)	16.5	17.0
Dolly (t)	12.95	13.45
Rear Trailer (t)	12.95	13.45

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 3, a bridge assessment is required.
4. Payload must be contained within the bins. Maximum payload heights measured from the ground must not exceed: (m)
 - Lead Trailer: 3.100
 - Rear Trailer: 2.945
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:
 - National Heavy Vehicle Accreditation Scheme (NHVAS) – Mass Management Module.
7. Higher Mass Limits (HML) requirements:
 - for tandem axles groups, road friendly suspensions.
8. 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 20% of the total combination mass e.g. at 72.5t total combination mass, $72.5 \times 0.2 = 14.5t$ is required on the drive axle group. This clause does not apply to an unladen vehicle.
9. If overall length exceeds 22m, a “LONG VEHICLE” sign must be displayed at the rear of the 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	Rule 43, Clause 6.2.1 (Length – Trailers) Rule 63, Clause 5.1 (Tow coupling location)
HV(MDL)NR	Schedule 6, Section 4 (Length – Trailers)
HV(VS)NR	Schedule 3, Section 29 (Attachment of couplings and drawbar eyes 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*

Details of truck(s) or prime mover(s)

Make	Scania
Model	R620
VIN(s)	YS2R6X40005501337 YS2R6X40005501815
Engine make/ model/ rating	Scania / DC16 17 Euro5 620hp / 3,000Nm - ADR80/03
Transmission make/ model	Scania / GRSO 925R
Differential make/ model/ FD ratio	Scania / AD1303P / FDR 3.52:1
Suspension make/ model (Steer)	Scania / Parabolic
Suspension make/ model (Drive)	Scania / 4 Bag Air RF2004
Tyres make/ size/ model (Steer)	295/80R22.5 Bridgestone R-Steer 001
Tyres make/ size/ model (Drive)	295/80R22.5 Bridgestone M840
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS / EBS
Tow coupling make/ D rating	Jost JSK 37CZ – 50/D190 / 190kN
Wheelbase (mm)	3775
Vehicle height (Measured from the ground) (mm)	NA
Number of axles	3
ADR category	NC
GVM (kg)	26,500
GCM (kg)	92,000
Comments/ notes: 5 th wheel mounted 140mm forward of bogie centre	

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

Type	Tandem Semi-Trailer
Make	Muscat Trailers
Model	Tipper
VIN(s)	6B9TAHHMTJ2AU3344 6B9TAHHMTJ2AU3346
Suspension make/ model	Hendrickson / Intraax AAT250 RF2009
Tyres make/ size/ model	11R22.5 Hankook TH22
Drawbar length (mm)	NA
Coupling make/ D rating	King Pin Jost KZ1012 / 190kN Ringfeder 303aus – 320kN
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS / EBS on 2 nd Axle
Wheelbase (mm)	6345
Vehicle height (Measured from the ground) (mm)	Front - 3100 Rear - 3000
Number of axles	2
ADR category	TD
ATM (kg)	30,000
Comments/ notes:	

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

Type	Drawbar Trailer
Make	Muscat Trailers
Model	4 Axle Dog
VIN(s)	6B9TAHHMTJ2AU3345 6B9TAHHMTJ2AU3347
Suspension make/ model	Hendrickson / Intraax AAT250 RF2009
Tyres make/ size/ model	11R22.5 Hankook TH22
Drawbar length (mm)	4985
Coupling make/ D rating	Tow Eye Ringfeder 50mm – 260kN Ballrace BPW DK90-16 / 60,000 kg
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS / EBS on 2 nd & 4 th Axles
Wheelbase (mm)	6545
Vehicle height (Measured from the ground) (mm)	2945
Number of axles	4
ADR category	TD
ATM (kg)	34,000
Comments/ notes:	

Approved tyre options

Steer –

11R22.5 or 295/80R22.5

- Michelin, Bridgestone, Firestone, Goodyear, Dunlop, Continental, Ohtsu/ Falken/ Sumitomo, Kumho, Hankook, Chao Yang, Goodride, Toyo, Semperit, Windpower, Windforce, Aeolus

Drive –

11R22.5 or 295/80R22.5

- Michelin XZA, X Multi D, XDE2+, XDE M/S, Dunlop SP430/431, Hankook AH22+, AH33, Continental HD Hybrid, Remington R628, Kumho KMD01

Or

- 295/80R22.5 Bridgestone M840

Trailer –

11R22.5

- Michelin XTA2 Energy, XTE2, Bridgestone R109, R168, Goodyear LHT, LHT II, Continental HS Hybrid, Hankook AH33, AH22+

Or

- 11R22.5 Hankook TH22

Retread or regroove tyres are permitted, 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 V180307.

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–V180307 –VA4990.



Laszlo (Les) Bruzsa

Chief Engineer

National Heavy Vehicle Regulator

Dated: 19/06/18

Revision table

N	Brief description	Date
1	First issue.	19/06/18

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 2016](#).

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 1300 MYNHVR (1300 696 487).

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 [Vehicle Approval transfer application form](#).