

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.

21 December 2022

Ref No: PBS – VA12508 – V221113 – v1A

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Design Application Number V221113 .

| | | | |
|------------------------|---|---------|---|
| Design Approval Holder | Stuart Buck TEFCO TRAILERS (QLD) PTY. LIMITED | Address | 24 – 30 Alexandra Pl Murarrie QLD 4172 |
|------------------------|---|---------|---|

| | | | |
|--------------------|-----------------|-------------|------------------|
| Design Application | V221113 | Vehicle | A-Double (3-2-3) |
| Load | Quarry and Bulk | Length (mm) | ≤ 30000 |
| Assessor | Marcus Coleman | 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 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) |
|--------------------------|------|---------|
| 6F5000000NA469793 | KW | 97 |

| Lead Trailer 1 | ATM (t) |
|--------------------------|---------|
| 6K9TEF013NM837026 | 43 |

| Dolly 1 | ATM (t) |
|--------------------------|---------|
| 6K9TEF032NM837005 | 17 |

| Rear Trailer 1 | ATM (t) |
|--------------------------|---------|
| 6K9TEF013NM837027 | 43 |

| Trailer Sets | | | |
|---------------|----------------|---------|----------------|
| Trailer Set 1 | Lead Trailer 1 | Dolly 1 | Rear Trailer 1 |

| Trailer Set 1 | |
|---------------|-------------------------|
| Prime Mover 1 | Variant 1 Table 1, 2 |

Table 1
Prime Mover 1 and Trailer Set 1

| 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 2
Prime Mover 1 and Trailer Set 1

| Mass Limits | Level 2 | Axle Group Masses | Level 2 | | |
|---|---------|-------------------|---------|-------|------|
| | | | GML | CML | HML |
| GML (t) | 70.85 | Steer (t) | 6.5 | 6.5 | 6.5 |
| CML (t) | 72.85 | Drive (t) | 16.5 | 17.0 | 17.0 |
| HML (t) | 76.85 | 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 4 | | 52.75 | 54.75 | 56.25 | |
| 2 to 5 | | 64.35 | 66.35 | 70.35 | |
| 3 to 5 | | 54.50 | 56.50 | 60.00 | |

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 | Heaped payload | Water level payload |
|--------------|----------------|---------------------|
| Lead Trailer | 3.550 | 3.350 |
| Rear Trailer | 3.850 | 3.650 |

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;
 - 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.
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 19.8% of the total combination mass e.g. at 79.5t total combination mass, $79.5 \times 0.198 = 15.74t$ is required on the drive axle group. This clause does not apply to an unladen vehicle.
9. 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.
10. If overall length exceeds 22m but does not exceed 30m, a **“LONG VEHICLE” sign must be displayed at the rear of the vehicle.**
11. The vehicle 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 | 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*

Approved tyre options

Steer –

- 11R22.5 (Load Index 149 or higher, single configuration)
- 275/70R22.5 (Load Index 148 or higher, single configuration)
- 295/80R22.5 (Load Index 152 or higher, single configuration)
- 305/70R22.5 (Load Index 150 or higher, single configuration)
- 315/80R22.5 (Load Index 156 or higher, single configuration)
- 385/65R22.5 (Load Index 158 or higher, single configuration)

Drive –

- 11R22.5 (Load Index 142 or higher, dual configuration)
- 255/70R22.5 (Load Index 137 or higher, dual configuration)
- 265/70R19.5 (Load Index 141 or higher, dual configuration)
- 275/70R22.5 (Load Index 141 or higher, dual configuration)
- 295/60R22.5 (Load Index 147 or higher, dual configuration)
- 295/80R22.5 (Load Index 147 or higher, dual configuration)
- 305/70R22.5 (Load Index 148 or higher, dual configuration)
- 315/80R22.5 (Load Index 154 or higher, dual configuration)

Trailer –

- 11R22.5 (Load Index 142 or higher, dual configuration)
- 295/80R22.5 (Load Index 147 or higher, dual configuration)
- 305/70R22.5 (Load Index 148 or higher, dual configuration)
- 255/70R22.5 (Load Index 137 or higher, dual configuration)
- 265/70R19.5 (Load Index 141 or higher, dual configuration)
- 275/70R22.5 (Load Index 141 or higher, dual configuration)
- 315/80R22.5 (Load Index 154 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 V221113.

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 | 5130 | 1320 | 5239 | 1250 | 1250 | 5221 | 1250 | 5223 | 1250 | 1250 | 29981 |

Declaration

I, Laszlo Bruzsa Chief Engineer, delegate of the National Heavy Vehicle Regulator, approve this PBS Vehicle Approval PBS-V221113 -VA12508.



Laszlo (Les) Bruzsa
 Chief Engineer
 National Heavy Vehicle Regulator
 Dated: 21/12/22

Revision table

| N | VA | Vers | Brief description | Date |
|---|-------|------|-------------------|----------|
| 1 | 12508 | 1A | First issue. | 21/12/22 |

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.