

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 October 2022

Ref No: PBS – V150114 – VA12160 – Tefco Trailers / THE Volgyesi Family Trust – v1A

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Application Number V150114 and is a modification of VA9262.

Applicant details	Stuart Buck Tefco Trailers 24 Alexandra Pl Murarrie QLD 4172	Operator	THE Volgyesi Family Trust 163 Harolds Cross Rd Captains Flat NSW 2623
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Application Number	V150114	Vehicle	3-axle truck 4-axle dog
Load	Quarry and Bulk	Length (mm)	≤ 19700
Assessor	Keith Mackinlay	Height (mm)	≤ 4300

Combination matrix

For each truck and trailer, the corresponding drawing and dimension set number is listed. The dimension set number (e.g. Original Blueprint) indicates the maximum allowable payload heights and/or allowable tyre options for the specific combination (refer to payload height operating conditions and approved tyre options). Additional vehicle units are listed in bold.

Truck 1	Truck 2
6F5000000HA458853	6F5000000MA469878

Trailer 2
6T9T24R01MADY0018

	Trailer 2
Truck 1	NT11427AM Original Blueprint Table 1, 3
Truck 2	NT11427AK Original Blueprint Table 2, 4

Table 1
Truck 1 and Trailer 1

Mass Limits	Level 1		Axle Group Masses	
			Level 1 GML	
GML (t)	50.5		Steer (t)	6.5
CML (t)	NA		Drive (t)	16.5
HML (t)	NA		Trailer Front (t)	15.0
Bridge Assessment	Tier 1		Trailer Rear (t)	15.0
The mass across axle groups is limited to -				
			Axle Groups	GML
			2 to 4	44.55
			3 to 4	27.50

Table 2
Truck 2 and Trailer 1

Mass Limits	Level 1		Axle Group Masses	
			Level 1 GML	
GML (t)	50.15		Steer (t)	6.5
CML (t)	NA		Drive (t)	16.5
HML (t)	NA		Trailer Front (t)	15.0
Bridge Assessment	Tier 1		Trailer Rear (t)	15.0
The mass across axle groups is limited to -				
			Axle Groups	GML
			2 to 4	43.65
			3 to 4	27.50

Table 3
Truck 1 and Trailer 1

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	55.85	Steer (t)	6.5	6.5	6.5
CML (t)	57.35	Drive (t)	16.5	17.0	17.0
HML (t)	57.35	Trailer Front (t)	16.5	17.0	17.0
Bridge Assessment	Tier 1	Trailer Rear (t)	16.5	17.0	17.0
The mass across axle groups is limited to -					
Axle Groups		GML	CML	HML	
2 to 4		49.35	50.85	50.85	
3 to 4		32.85	33.85	33.85	

Table 4
Truck 2 and Trailer 1

Mass Limits	Level 2	Axle Group Masses	Level 2		
			GML	CML	HML
GML (t)	55.75	Steer (t)	6.5	6.5	6.5
CML (t)	57.25	Drive (t)	16.5	17.0	17.0
HML (t)	57.25	Trailer Front (t)	16.5	17.0	17.0
Bridge Assessment	Tier 1	Trailer Rear (t)	16.5	17.0	17.0
The mass across axle groups is limited to -					
Axle Groups		GML	CML	HML	
2 to 4		49.25	50.75	50.75	
3 to 4		32.75	33.75	33.75	

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)

Original Blueprint	Heaped payload	Water level payload
Truck	3.600	3.400
Trailer		

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 the trailer mass exceeds the truck mass, at least 16t on the drive axle group is required. This clause does not apply for an unladen vehicle.

Exemptions

Heavy Vehicle National Law Section 24

Heavy Vehicle (General) National Regulation Section 28

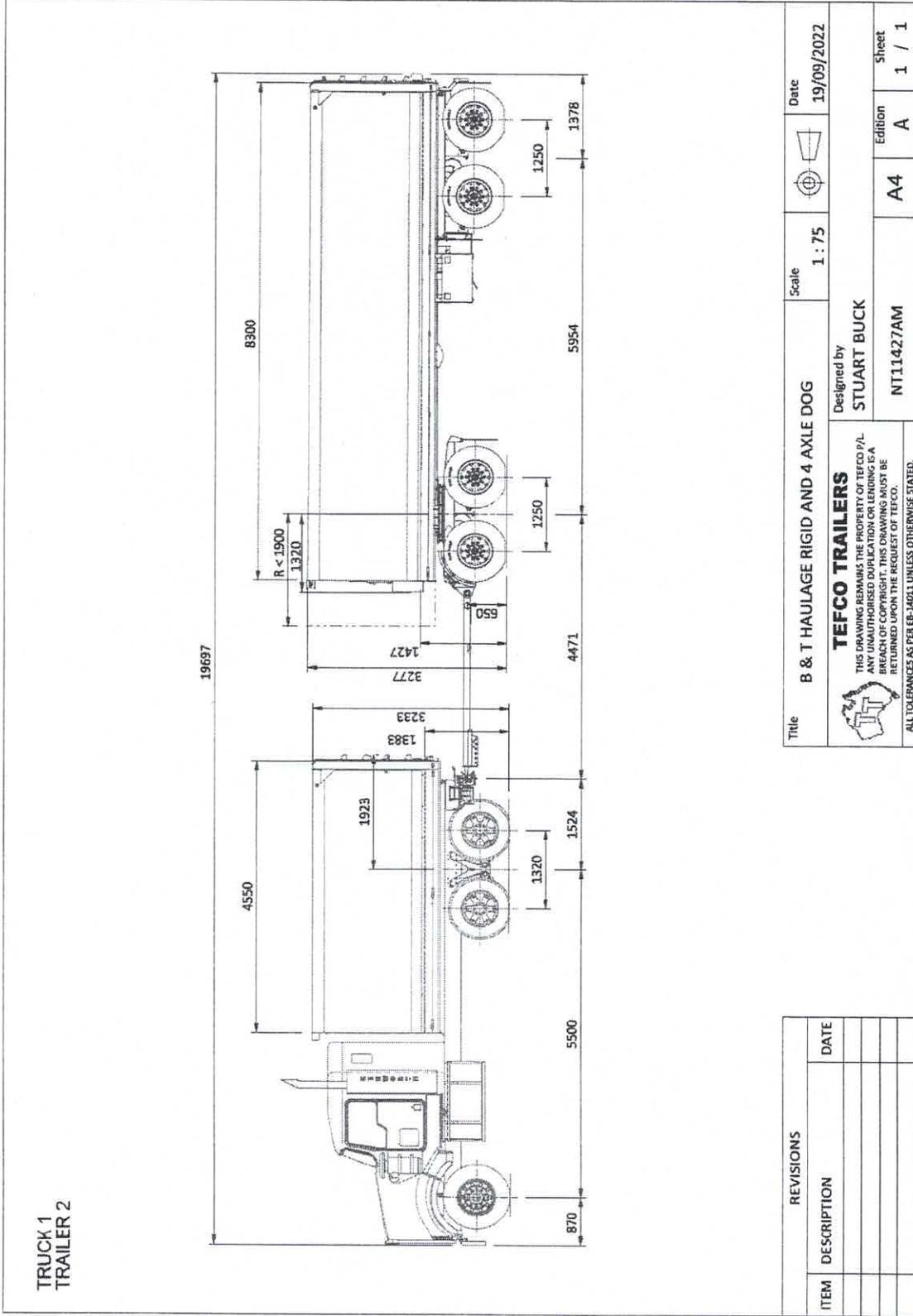
The following table lists exemptions from prescribed vehicle standards that have been granted for the vehicle(s) in this vehicle approval.

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*

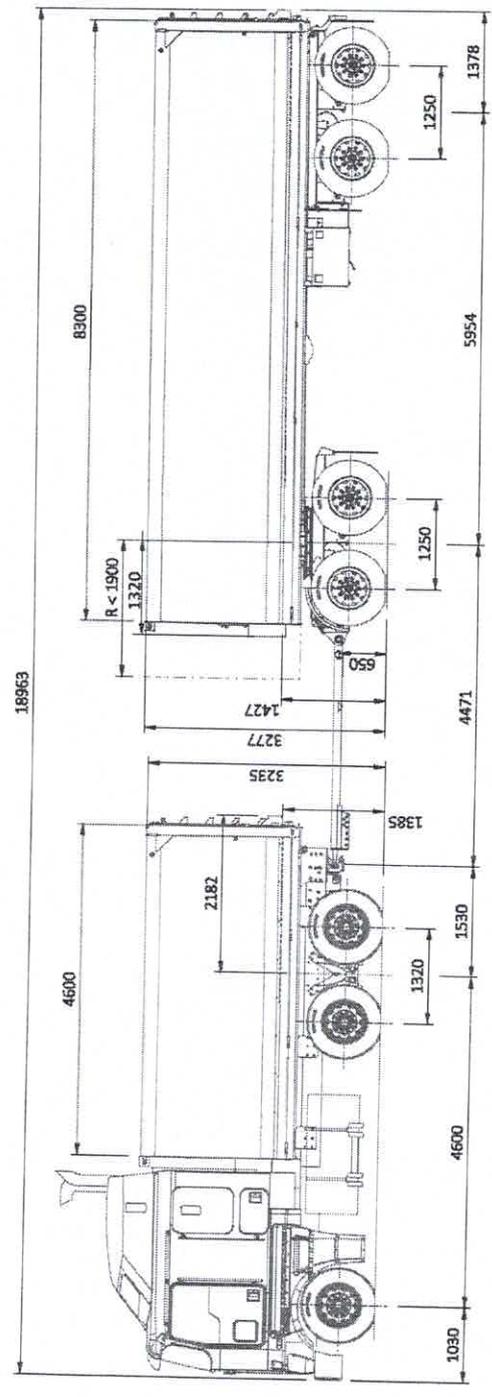
HV(VS)NR *Heavy Vehicle (Vehicle Standards) National Regulation*



Title		B & T HAULAGE RIGID AND 4 AXLE DOG		Scale	1 : 75	Date	19/09/2022
Designed by		STUART BUCK		Edition		A	
NT11427AM		NT11427AM		Sheet		1 / 1	
<p>TEFCO TRAILERS</p> <p>THIS DRAWING REMAINS THE PROPERTY OF TEFCO P/L ANY UNAUTHORISED DUPLICATION OR LENDING IS A BREACH OF COPYRIGHT. THIS DRAWING MUST BE RETURNED UPON THE REQUEST OF TEFCO. ALL TOLERANCES AS PER EB-14011 UNLESS OTHERWISE STATED.</p>							
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REVISIONS	
ITEM	DATE

TRUCK 2
TRAILER 2



REVISIONS	
ITEM	DATE

Title		Scale		Date	
B & T HAULAGE RIGID AND 4 AXLE DOG		1 : 75		20/09/2022	
 TEFCO TRAILERS <small>THIS DRAWING REMAINS THE PROPERTY OF TEFCO P/L ANY UNAUTHORISED DUPLICATION OR LENDING IS A BREACH OF COPYRIGHT. THIS DRAWING MUST BE RETURNED UPON THE REQUEST OF TEFCO. ALL TOLERANCES AS PER EB 14011 UNLESS OTHERWISE STATED.</small>		Designed by STUART BUCK		Edition A	
NT11427AK		A4		Sheet 1 / 1	
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Details of truck(s) or prime mover(s) – Truck 1

Make	Kenworth
Model	T409SAR
VIN(s)	6F5000000HA458853
Engine make/ model/ rating	Cummins X15 550 HP
Transmission make/ model	Eaton Fuller RTLO20918B
Differential make/ model/ FD ratio	Meritor RT46-160GP FDR=4.30:1
Suspension make/ model (Steer)	Kenworth Leaf
Suspension make/ model (Drive)	Kenworth Airglide 460 Tandem Steel (RF2012)
Tyres make/ size/ model (Steer)	295/80R22.5 Bridgestone R150
Tyres make/ size/ model (Drive)	11R22.5 Bridgestone M766
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Tow coupling make/ D rating	Ringfeder 303AUS 320kN
Wheelbase (mm)	5500
Vehicle height (Measured from the ground) (mm)	3233
Number of axles	3
ADR category	NC
GVM (kg)	27,500
GCM (kg)	97,000
Comments/ notes:	

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

Make	Kenworth
Model	K200
VIN(s)	6F5000000MA469878
Engine make/ model/ rating	Cummins X15 Euro V 600 – 615
Transmission make/ model	Eaton Fuller RTLO22918B
Differential make/ model/ FD ratio	Meritor RT46-160GP FDR=4.30:1
Suspension make/ model (Steer)	Kenworth Leaf Spring 7.2t
Suspension make/ model (Drive)	Kenworth Airglide 460 (RF2012)
Tyres make/ size/ model (Steer)	295/80R22.5 Bridgestone R150 II
Tyres make/ size/ model (Drive)	11R22.5 Bridgestone M766
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Tow coupling make/ D rating	Conventional automatic pin type coupling, D = 320kN
Wheelbase (mm)	4600
Vehicle height (Measured from the ground) (mm)	3235
Number of axles	3
ADR category	NC
GVM (kg)	26,500
GCM (kg)	97,000
Comments/ notes:	

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

Type	4 Axle Dog Trailer with Tipper
Make	Tefco Pty Ltd
Model	Tefco Four Axle Dog Trailer
VIN(s)	6T9T24R01MADY0018
Suspension make/ model	Hendrickson Intraax AAT230 (RF2008)
Tyres make/ size/ model	11R22.5 Bridgestone R168
Drawbar length (mm)	4891
Coupling make/ D rating	Conventional Tow Eye, D = 314kN
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Wheelbase (mm)	5954
Vehicle height (Measured from the ground) (mm)	3277
Number of axles	4
ADR category	TD
ATM (kg)	34,000
Comments/ notes:	

Approved tyre options – Level 1 and 2 (Formula 1 Only)

Steer –

- 295/80R22.5, 385/65R22.5, 315/80R22.5, 11R22.5

Drive –

PBS Reference Tyre TS001 –

- **11R22.5** Bandag BRL3, Dunlop SP430, SP431, Goodyear LHT, LHTII, Michelin XZA, Haulmax ATT101, ATT102
- **11R22.5** Bandag (Retread) BRL3 (Min tread width 210mm)
- **295/80R22.5** Continental HD Hybrid
- **295/60R22.5** Michelin XDA2+
- **275/70R22.5** Goodyear LHDII,
- **265/70R19.5** Goodyear LHT, RHT
- **255/70R22.5** Goodyear LHTII
- **305/70R22.5** Michelin XZU2T

Or

- **11R22.5** Bridgestone M722, M749, Continental HDR2, Double Coin RLB, Michelin X Multi D, XDE2+
- **11R22.5** Bridgestone M766

Trailer –

PBS Reference Tyre TS001 –

- **11R22.5** Bandag BRL3, Bridgestone R109, R168, R187, R285Z, R295Z, Continental HT3, Dunlop SP430, SP431, Firestone FS567, Goodyear LHT, LHTII, Michelin XTE2, XZA, Haulmax ATT101, ATT202
- **11R22.5** Bandag (Retread) BRL3 (Minimum tread width 210 mm)
- **255/70R22.5** Goodyear LHTII
- **265/70R19.5** Goodyear LHT, RHT
- **305/70R22.5** Michelin XZU2T

Or

- **11R22.5** Aeolus HN266, HN06

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V150114.

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–V150114 –VA12160.



Laszlo (Les) Bruzsa
 Chief Engineer
 National Heavy Vehicle Regulator
 Dated: 18/10/22

Revision table

N	VA	Vers	Brief description	Date
1	3557	1	First issue.	28/06/17
2	9262	1A	Adding 1x truck, 1x trailer to VA3557 (additional VINs listed in bold).	21/06/21
3	12160	1A	Trailer 2 recertified against both Truck 1 and 2. Deleting 1x Trailer (6T9T24R04H0DY0006)	18/10/22



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

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.

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. 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 Team at pbs@nhvr.gov.au.

Transfer of PBS 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 must 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](#).