

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.

10 January 2022

Ref No: PBS – V121111 – VA10483 – Eastern Plant Hire / Soko Investments – v1A

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Application Number V121111 and is a modification of VA5163.

Applicant details	Ben Paganoni Eastern Plant Hire 358 Whitehorse Rd Nunawading VIC 3131	Operator	Soko Investments 11 Robbie Cl Rowville VIC 3178
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Application Number	V121111	Vehicle	3-axle truck 3-axle dog
Load	Quarry and Bulk	Length (mm)	≤ 17850
Assessor	Marcus Coleman	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) 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 2
6F5000000MA476084

Trailer 1
6B9TR3D0GJSCB8433

	Trailer 1
Truck 1	SOK01_002 Original Table 1

Table 1
Truck 1 and Trailer 1

Mass Limits	Level 1		Axle Group Masses	Level 1
				GML
GML (t)	48.5		Steer (t)	6.5
CML (t)	NA		Drive (t)	16.5
HML (t)	NA		Trailer Front (t)	9.0
Bridge Assessment	Tier 1		Trailer Rear (t)	16.5

Table 2
Truck 1 and Trailer 1

Mass Limits	Level 2		Axle Group Masses	Level 2		
				GML	CML	HML
GML (t)	48.5		Steer (t)	6.5	6.5	6.5
CML (t)	49.5		Drive (t)	16.5	17.0	17.0
HML (t)	49.5		Trailer Front (t)	9.0	9.0	9.0
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)

	Heaped payload	Water level payload
Truck	2.900	2.700
Trailer		

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, the drive axle group load must exceed 26% of vehicle combination’s total mass (Drive axle group load = 0.26 x total combination mass, e.g. at 36.375t total combination mass as measured, $36.375 \times 0.26 = 9.5\text{t}$ is required on the drive axle group). This clause does not apply for an unladen vehicle.
9. When operating at Level 2, the drive axle group load must exceed 20% of vehicle combination’s total mass (Drive axle group load = 0.2 x total combination mass, e.g. at 36.375t total combination mass as measured, $36.375 \times 0.2 = 7.3\text{t}$ is required on the drive axle group). 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.

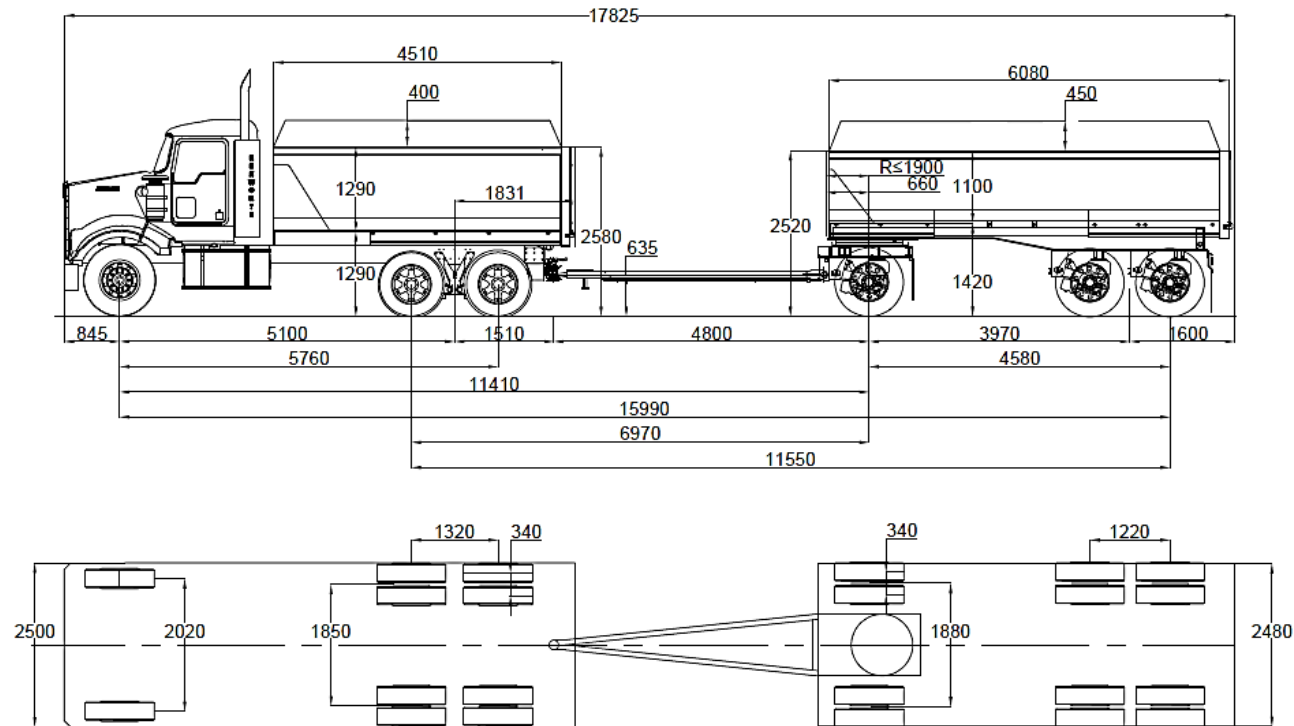
Exemptions	
ADR	NA
HV(MDL)NR	NA
HV(VS)NR	NA

ADR Australian Design Rules

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

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

TRUCK 2
TRAILER 1



					ALL DIMENSIONS IN mm UNLESS SPECIFIED TOLERANCES UNLESS SPECIFIED ± 25mm		ER211579 PBS Certification SOKO Investments Pty Ltd Stephen Olarenshaw V121111 1/2A r12d12 www.smedleys.co engineers@smedleys.co 28 Gwynne Street, Richmond, Vic 3121
REV.	Description	DRAWN	APPR.	DATE		DO NOT SCALE	THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF SMEDLEY'S ENGINEERS PTY LTD AND MUST NOT BE COPIED, LOANED OR OTHERWISE USED WITHOUT THE EXPRESSED PERMISSION OR LICENCE IN WRITING. RETURN IMMEDIATELY UPON ITS REQUEST TO DO SO. ALL COPIES OF THIS DRAWING IN THE POSSESSION OF THE RECIPIENT OTHER THAN THOSE REQUIRED FOR THE RECIPIENT'S RECORDS AND ANY UNAUTHORISED USE OF THIS DRAWING INCLUDING ITS REPRODUCTION IN THREE DIMENSIONAL FORM, MAY CONSTITUTE A VIOLATION OF THE COPYRIGHT ACT 1968
							DRAWN MH CHECKED JH DATE 07/12/21 SCALE No Scale SIZE A4 SHEET 1 of 1 DWG NO SOK01_002

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

Make	Kenworth
Model	T410SAR
VIN(s)	6F5000000MA476084
Engine make/ model/ rating	Paccar MX510 - 1850
Transmission make/ model	Paccar PO-18F112C
Differential make/ model/ FD ratio	Dana DD/RDH40P, FDR=3.90:1
Suspension make/ model (Steer)	Kenworth leaf springs 7.2t
Suspension make/ model (Drive)	Kenworth Airglide 400
Tyres make/ size/ model (Steer)	295/80R22.5 Bridgestone R154
Tyres make/ size/ model (Drive)	11R22.5 Bridgestone M766
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Tow coupling make/ D rating	Automatic pin type coupling D=285kN
Wheelbase (mm)	5100
Vehicle height (Measured from the ground) (mm)	2580
Number of axles	3
ADR category	NC
GVM (kg)	24,700
GCM (kg)	50,000
Comments/ notes:	

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

Type	3-axle dog trailer
Make	Chris's Body Builders
Model	CBBDT-3
VIN(s)	6B9TR3D0GJSCB8433
Suspension make/ model	York Duratrac Tecair (R360)
Tyres make/ size/ model	11R22.5 Bridgestone R187
Drawbar length (mm)	4800
Coupling make/ D rating	Toweye, ballrace
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Wheelbase (mm)	3970
Vehicle height (Measured from the ground) (mm)	2520
Number of axles	3
ADR category	TD
ATM (kg)	26,000
Comments/ notes:	

Approved tyre options – Level 1 and Level 2

Steer –

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

Drive –

PBS Reference Tyre TS001 (Level 1 and Level 2)

- **11R22.5** Dunlop SP430, SP431, General RA,
- **11R22.5 (Retread)** Bandag BRL3 (Minimum tread width 210 mm)
- **275/70R22.5** Goodyear LHDII
- **295/60R22.5** Michelin XDA2+
- **295/80R22.5** Continental HD Hybrid
- **315/80R22.5** TechKing TKAM IIs

Or

- **11R22.5** Goodyear LHT II, Haulmax ATT305, ATT307, ATT308, ATT101, ATT202, Michelin XDE2+, XMultiD, Chao Yang CB972, MD738, Advance GL655A, Goodyear G182RSD, G367 (667)
- **255/70R22.5** Goodyear LHTII
- **265/70R19.5** Goodyear LHT, RHT
- **295/80R22.5** Haulmax ATT307, ATT101, ATT202

Trailer –

PBS Reference Tyre TS001 (Level 1 and Level 2)

- **11R22.5** Bridgestone R109, R168, R295Z, Continental HT3, Dunlop SP430, SP431, Firestone FS567, UT3000, T559, General RA, Hankook TH22, Loadrunner LR735R, O'Green AG735, Treadline TL735F
- **11R22.5 (Retread)** Bandag BRL3 (Minimum tread width 210 mm)
- **265/70R19.5** Goodyear LHT
- **275/70R22.5** Kumho KRT01
- **315/80R22.5** TechKing TKAM IIs

Or

- **11R22.5** Bridgestone R187, R285Z, Continental HTR, Goodyear LHT II, Haulmax ATT101, ATT202, Loadrunner LR718A, Michelin X Multi T, Treadline TL718A
- **255/70R22.5** Goodyear LHTII
- **265/70R19.5** Goodyear RHT
- **275/70R22.5** Bridgestone R184, , O'Green AG168, AG516
- **295/80R22.5** Haulmax ATT101, ATT202, O'Green AG150, Treadline TL176F

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V121111.

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

Approved tyre options – Level 2 only

Steer –

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

Drive –

PBS Reference Tyre TS003 (Level 2 only)

- **11R22.5** Continental HDR2+, General RA, Double Coin RLB1, RR, Dunlop SP430, Firestone FD663, Hilo 100, Jinyu JY601, JY588, Lionstone HL126, Michelin XDE M/S, xMultiD, O'Green AG677, TechKing TKAM C+, Super DM, Treadline TL836D, Westlake/ Chao Yang/ Good Ride CB972, CM333, CR926D, MD738
- **11R22.5 (Retread)** Bandag D4310 (Minimum tread width 203 mm), R4200 (Minimum tread width 203 mm), BRL3 (Minimum tread width 210 mm), RT (Minimum tread width 203 mm)
- **275/70R22.5** Goodyear LHDII, Dunlop SP430
- **295/60R22.5** Michelin XDA2+
- **295/80R22.5** Bridgestone M729, Continental HD Hybrid, HDC1, Double Coin RR680, Dunlop SP350A, Goodyear LHDII, Jinyu JF568, FY529, Westlake/ Chao Yang/ Goodride CM958
- **315/80R22.5** TechKing TKAM IIs

Or

- **11R22.5** Advance GL655A, Bridgestone M722, M726Z, M749, M766, M822, R-Drive 001, Dunlop SP431, Goodyear LHDII, G182RSD, G367 (667), LHT II, Haulmax ATT101, ATT202, ATT305, ATT307, ATT308
- **255/70R22.5** Goodyear LHTII
- **265/70R19.5** Goodyear LHT, RHT
- **295/80R22.5** Haulmax ATT307, ATT101, ATT202

Trailer –

PBS Reference Tyre TS0003 (Level 2 only)

- **11R22.5** Aeolus HN06, HN266, Austyre 16PR, Boto BT212N, BT710, Bridgestone R109, R168, R295Z, Continental HT3, HTR, General RA, Double Coin RLB1, RR, Dunlop SP430, SP431, Firestone FS567, UT3000, T559, Goodyear G367 (667), Hankook TH22, Hilo 100, Jinyu JY588, JY601, Lionstone HL126, Loadrunner LR735R, LR718A, O'Green AG735, AG168, Treadline TL735F, TL718A, TechKing TKAM C+, Westlake/ Chao Yang/ Good Ride CR926D, CR960A, Yokohama RY588
- **11R22.5 (Re-tread)** Bandag BRL3 (minimum tread width 210 mm), R4200 (minimum tread width 203 mm), RT (minimum tread width 203 mm)
- **255/70R22.5** Goodyear G661
- **265/70R19.5** Bridgestone R168, Goodyear LHT
- **275/70R22.5** Bridgestone R168, Dunlop SP430, O'Green AG516, Kumho KRT01
- **295/80R22.5** Double Coin RR680, Dunlop SP350A, O'Green AG150, Treadline TL176F, Westlake/ Chao Yang/ Goodride CM958, Jinyu JF568, JY529
- **315/80R22.5** TechKing TKAM IIs

Or

- **11R22.5** Bridgestone R187, R285Z, Goodyear G182RSD, LHT II, Haulmax ATT101, ATT202, Michelin XZE2+, X Multi T, Sportrak BYS98, Triangle TR666
- **255/70R22.5** Goodyear LHTII
- **265/70R19.5** Goodyear RHT
- **275/70R22.5** Bridgestone R184
- **295/80R22.5** Haulmax ATT101, ATT202

Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V121111.

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–V121111 –VA10483.

Laszlo (Les) Bruzsa

Chief Engineer

National Heavy Vehicle Regulator

Dated: 10/01/22

Revision table

N	VA	Vers	Brief description	Date
1	5163	1	First issue.	23/07/18
2	10483	1A	Adding 1x truck; Removing 1x truck 6F50000006A431098 from VA5163 (additional VINs listed in bold).	10/01/22

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 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 [PBS Vehicle Approval Transfer Application form](#).