Part A - Vehicle owner’s or supplier’s details

|  |  |
| --- | --- |
| Name: | Company/business: |
|  |  |
| Address: | Post code: |
|  |  |

Vehicle and modifier details

|  |  |  |
| --- | --- | --- |
| Vehicle make: | Vehicle model: | Month and year of manufacture: |
|  |  |  |
| VIN (if applicable): | Vehicle chassis no. (if applicable): | Engine no: |
|  |  |  |
| Issued by (Approved Vehicle Examiner (AVE)): | Company (if applicable): | AVE no.: |
|  |  |  |
| Signed: | Telephone: | Date: |
|  |  |  |

Vehicle design

|  |
| --- |
| Vehicle dimensions |
| Overall vehicle length: | Wheelbase: | Rear overhang: |
| **mm** | **mm** | **mm** |
| Vehicle rating (information should be based on the truck manufacturer’s specifications or VSB6 approval) |
| Gross Vehicle Mass (GVM) rating: | Gross Combination Mass (GCM) rating: |
| **kg** | **kg** |
| Component specifications (the following information should be based on the truck manufacturer’s specifications or VSB6 approval) |
| Component | Make: | Model: | Load rating (with S10 specified tyres): |
| Steering box and linkage(s) |  |  | **kg** |
| Suspension – Steer axle(s) |  |  | **kg** |
| Suspension – Rear axle group |  |  | **kg** |
| Axles  | Make: | Model: | Load rating (with S10 specified tyres): | Number of axles: | Load sharing: |
| Front axle group |  |  | **kg** |  | Y [ ]  N [ ]  N/A [ ]  |
| Rear axle group |  |  | **kg** |  |  |
| Tyres  | Size designation: | Load index: | Capacity per tyre: | Total axle group tyre capacity: |
| Front axle group  |  |  | **kg** | **kg** |
| Rear axle group |  |  | **kg** | **kg** |
| Coupling | Make: | Model: | D-value: |
| Fifth wheel/turntable |  |  | **kN** |

Assessment

|  |  |  |  |
| --- | --- | --- | --- |
| Assessment Check Yes, No as applicable: (If No, do not proceed with the rating) | Yes | No |  |
| 1 | Is the vehicle fitted with tandem or tri-axle drive? | [ ]  | [ ]  |  |
| 2 | Are drive axles fitted with dual tyres? | [ ]  | [ ]  |  |
| 3 | Is the vehicle’s steering configuration either single steer or twin-steer with load sharing suspension? | [ ]  | [ ]  |  |
| 4 | Is the overall length of the vehicle, including fittings, less than or equal to 12.5m? | [ ]  | [ ]  |  |
| 5 | Is the overall width of the vehicle within the Australian Design Rule definition for maximum vehicle width (e.g. 2.5m)? | [ ]  | [ ]  |  |
| 6 | Is the overall height less than or equal to 4.3m? | [ ]  | [ ]  |  |
| 7 | Is the rating of any fitted fifth wheel or ball race turntable greater than or equal to: |  |  |  |
| * For Type 2 road train hauling units 160kN?
 | [ ]  | [ ]  |  |
| * For Type 1 road train hauling units 140kN
 | [ ]  | [ ]  |  |
| * For other units 123kN?
 | [ ]  | [ ]  |  |

Advanced braking systems

|  |  |  |  |
| --- | --- | --- | --- |
| Braking systems Check Yes, No, N/A as applicable: (If No do not proceed with the rating) | Yes | No | N/A |
| 1 | Is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification? | [ ]  | [ ]  | [ ]  |

Compliance

|  |  |  |  |
| --- | --- | --- | --- |
| Modification Check Yes, No as applicable: (If No, do not proceed with the rating) | Yes | No |  |
| 1 | Is the quality of the work to an accepted industry standard? | [ ]  | [ ]  |  |
| 2 | Does the modified vehicle continue to comply with all affected ADRs? | [ ]  | [ ]  |  |

Part B - Unladen mass

|  |
| --- |
| Weigh vehicle |
| * Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing.
* Ensure vehicle is weighed without driver.
* Attach a copy of the weighbridge ticket in the space provided at the end of Part B.
 |
| **Front axle group mass (F1):** | **Kg** |
| **Rear axle group mass (R1):** | **Kg** |
| **Weighbridge ticketed mass (F1 + R1):** | **Kg** |
| **Fuel:** | **L** |
| **AdBlue:** | **L** |
| **Water:** | **L** |
| Standard equipment |
| * List all standard equipment fitted to the truck at the time of weighing (e.g. bullbar, sleeper, cab air conditioning, spare wheel/tyre(s), toolbox(s).
* It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.
* Attach all photos in the space provided at the end of Part B.
 |
| **Standard equipment list at time of weighing:** |
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Additional equipment

|  |
| --- |
| Plan of additional equipment (including fluid tanks) |
| * Draw a plan of the chassis layout showing the position of all the additional equipment that has been, or is planned to be, fitted to the truck after the time of weighing. Items could include, but are not limited to: bullbar, fluid tanks, sleeper cab air conditioning, spare wheel/tyre(s), toolbox(s), refrigerator(s) etc.
* Add to the plan drawing the position of all fuel, Adblue and water tanks.
* Attach all photos in the space provided at the end of Part B.
 |
| **Chassis layout of additional equipment (including fluid tanks):** |
|  |
| Calculated dry mass with standard and additional equipment  |
| * Subtract any mass imposed on the front and rear axle group(s) due to fuel, AdBlue and water.
* Add the mass on the front and rear axle group(s) due to any additional equipment fitted after the time of weighing.
* A copy of weight distribution calculations must be attached to the end of Part B.
 |
| **Front axle group dry mass (F2):** | **kg** |
| **Rear axle group dry mass (R2):** | **kg** |
| **Vehicle dry mass with standard equipment and additional equipment (F2+R2):** | **kg** |

Unladen mass (wet mass)

|  |
| --- |
| Calculate the unladen or wet mass (with full fuel/AdBlue/water tanks added to dry mass of the steer and rear axle groups(s))  |
| * Calculate the mass of fuel/AdBlue/water in each tank (taking into account ullage factor) by multiplying the nominal volume of each tank by the density of its fluid.
* A copy of weight distribution calculations must be attached to the end of Part B.
 |
| **Front axle group unladen (wet) mass (F3):** | **kg** |
| **Rear axle group unladen (wet) mass (R3):** | **kg** |
| **Vehicle’s unladen (wet) mass with filled fluid reservoirs (less ullage), standard equipment and additional equipment (F3+R3):** | **kg** |

Additional Information

|  |
| --- |
| **Photos of vehicle and standard equipment at time of weighing:** |
|  |
| **Weighbridge certificate:** |
|  |
| **Dry mass weight distribution calculations. From mass imposed on the front and rear axle group(s) due to additional equipment (that has been, or is to be added after the time of weighing). Also subtract the weight of fuel, AdBlue and water at the time of weighing:** |
|  |
| **Unladed mass (wet mass) weight distribution calculations. From mass imposed on the front and rear axle group(s) due to full fuel, AdBlue and water tanks:** |
|  |

Part C - Imposed load (prime mover)

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| Calculated additional front and rear axle group(s) mass due to the imposed load through the prime mover’s fifth wheel  |
| * An imposed load of 15,000kg is to be applied through the centreline of the fifth wheel/turntable, to simulate the mass of a loaded trailer coupled to the prime mover (Check: the total vehicle imposed S10 mass (F4 + R4) should equal 15,000kg).
* Calculate the additional mass on the front and rear axle group(s) due to the imposed load through the fifth wheel/turntable of the prime mover.

Note: A copy of weight distribution calculations must be attached to this document. |
| **Additional mass on front axle group mass due to imposed load (F4):** | **kg** |
| **Additional mass on rear axle group mass due to imposed load (R4):** | **kg** |

Part D - S10 Gross combined mass (GCM) (prime mover)

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| --- |
| Calculated S10 GCM |
| * Calculate the intended S10 GCM of the vehicle using the formula provided in the Appendix 1, Section (4), (b) of the Scheme.
 |
| **S10 gross combination mass rating required:** | **kg** |

Part E - Vehicle S10 laden mass (prime mover)

|  |
| --- |
| S10 Laden mass  |
| * Calculate the total mass on the front and rear axle group(s) of the prime mover by adding the unladen axle masses of the prime mover (calculated above) and the imposed load masses (calculated in Part C above). This will determine the vehicle laden mass.
 |
| **Front axle group S10 laden mass (F5) such that (F3+F4=F5):** | **kg** |
| **Rear axle group S10 laden mass (R5) such that (R3+R4=R5):** | **kg** |
| **Vehicle S10 laden mass (R5 + F5):**  | **kg** |
| S10 Conditional mass requirement  |
| * Record the conditional mass requirements that apply to the vehicle as detailed in the Scheme Notice.
 |
| **Maximum mass limit, front axle group:** | **kg** |
| **Maximum mass limit, laden mass:** | **kg** |
| Modification Check Yes, No as applicable: (If No, do not proceed with the rating) | Yes | No |  |
|  | Are the maximum calculated S10 laden masses less than or equal to the S10 Statutory livestock loading limits? | [ ]  | [ ]  |  |
| Prime mover manufacturer’s ratings  |
| * Record information from the vehicle manufacturer’s rating plate, affixed to the cabin by the manufacturer.
* Where the vehicle has been assessed/modified/re-rated and approved in accordance with VSB6, use the information from the modification plate.
 |
| **Maximum front axle group rating:** | **kg** |
| **Front axle group tyre size:**  |  |
| **Front axle group tyre capacity:**  | **kg** |
| **Maximum rear axle group rating:**  | **kg** |
| **Rear axle group tyre size:**  |  |
| **Rear axle group tyre capacity:**  | **kg** |
| **Gross Vehicle Mass (GVM) rating:** | **kg** |
| **Gross Combination Mass (GCM) rating:** | **kg** |
| Modification Check Yes, No as applicable: (If No, to either do not proceed with the rating) | Yes | No |
|  | Are the S10 laden masses (calculated above) less than or equal to the vehicle’s manufacturer’s ratings? | [ ]  | [ ]  |
| Livestock loading S10 plate  |
| * Duplicate the below information on the livestock loading S10 plate (maroon in colour).
* Affix the plate to the cabin of the truck.
* Ensure all other fields on the Livestock loading (S10) Plate ARE blanked out with three (3), or more, ‘X’ (For example: ‘XXX’)
 |
| **Date:** |  |
| **Approved Vehicle Examiner/ Approved Person Accreditation Number:** |  |
| **Certificate Number:** |  |
| **Vehicle Identification Number (VIN) / Chassis Number:** |  |
| **Vehicle laden S10 mass (from Part E):** | **kg** |
| **S10 Gross combination mass (from Part D):** | **kg** |
| **Front axle group S10 laden mass (from Part E):** | **kg** |
| **Rear axle group S10 laden mass (from Part E):** | **kg** |
| **S10 front tyre size/load rating (from Part A):** | / kg |
| **S10 rear tyre size/load rating (from Part A):** | / kg |

Part F - Vehicle details and declarations

AVE authorisation

|  |
| --- |
| **Declaration by certifier (AVE)** |
| **I am the Approved Person who completed all the mass calculations and declare that the information in this form is true and correct.** |
| Issued by: | Company (if applicable): | AVE no.: |
|  |  |  |
| Signed: | Telephone: | Date: |
|  |  |  |

Owner/vehicle supplier authorisation

|  |
| --- |
| **As the** [ ]  **owner /** [ ]  **supplier (select applicable) of the vehicle described in this form, I declare that the vehicle specifications and vehicle equipment detailed herein are representative of the vehicle as it will enter into service and that I have enlisted the services of the AVE mentioned above to complete the S10 approval of this vehicle in this build state/configuration.** |
| Name: | Company (if applicable): |
|  |  |
| Address |
|  |
| Signed: | Telephone: | Date: |
|  |  |  |