### Vehicle and engine details

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vehicle make: | | | | Vehicle model: | | | | | | Month and year of manufacture: | | | | | | | |
|  | | | |  | | | | | |  | | | | | | | |
| VIN (if applicable): | | | | Vehicle chassis no. (if applicable): | | | | | | Vehicle modifier (company name): | | | | | | | |
|  | | | |  | | | | | |  | | | | | | | |
| Engine make/mode: | | Engine no: | | | Rated power @ rpm: | | | | Governed rpm: | | Max torque @ rpm: | | | | | | |
|  | |  | | |  | kW @ |  | RPM |  | |  | | Nm @ | |  | | RPM |
| Tail shaft series/size: | | | Manufacturers max torque: | | | | | |  | | T800 torque @ rpm: | | | | | | |
|  | mm (if applicable) | |  | | | | | Nm |  | |  | Nm @ | |  | | RPM | |

### Component details

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Component | | Make/model | | | | | | | | | | | Manufacturer’s max. GCM rating | | | | | | | | Low/top ratios | | | | | | | |
| Transmission | |  | | | | | | | | | | |  | | | | kg | | | | 1: |  | | | 1: | |  | |
| Aux. transmission | |  | | | | | | | | | | |  | | | | kg (if applicable) | | | | 1: |  | | | 1: | |  | |
| Rear axle(s) | |  | | | | | | | | | | |  | | | | kg | | | | 1: |  | | | 1: | |  | |
| Rear suspension | |  | | | | | | | | | | |  | | | | kg | | | |  | | | | | | | |
| Front axle(s) | |  | | | | | | | | | | |  | | | | kg (if applicable) | | | | 1: |  | | | 1: | |  | |
| Front suspension | |  | | | | | | | | | | |  | | | | kg (if applicable) | | | |  | | | | | | | |
| Tyres front | |  | | | | | | | | | | |  | | | | | | | |  | | | | | | | |
| Tyres rear | |  | | | | | | | | | | |  | | | | | | | |  | | | | | | | |
| Chassis section | |  | | | | | | | | | | |  | | | | kg | | | |  | | | | | | | |
| Tow coupling / fifth wheel | |  | | | | | | | | | | | D-rating | | |  | | | | | | | | | | kN | | |
| Tow coupling overhang | | Applicable: | | | | | Yes | |  | No |  | | Amount | | |  | | | | | | | | | | mm | | |
| Wheelbase | | mm | | | | |  | | | | | | Rear overhang | | |  | | | | | | | | | | mm | | |
| Road train motor vehicle tests | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speed limited by: | Gearing | | |  | Road speed governor | | | | | | |  | | Maximum governed speed: | | | | |  | | | | km/h | | | | | |
| Brake timing test | Combination of vehicles | | | | |  | | Individual vehicle | | | |  | | Test results | Application: | | |  | | ms | Release: | | |  | | | | ms |
| Modified road train GCM assigned | | | | Vehicle make/model, if used for comparison | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | kg |  | | | | | | | | | | | | | | | | | | | | | | | | |

### Assessment

| **Assessment** Check Yes, No, N/A as applicable: | | | | | Yes | No | N/A |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | Does the chassis have adequate strength for the assigned GCM? | | | |  |  |  |
| **2** | Have details of the reference vehicle used for comparison, truck manufacturer's letter or AVE report certifying adequacy of the chassis been retained for future audit? | | | |  |  |  |
| **3** | Are the tow couplings and attachments adequate for the GCM as outlined in VSB6 Section P? | | | |  |  |  |
| **4** | Has gradeability been established to exceed 10% at the modified GCM? | Gradeability rating: |  | % |  |  |  |
| **5** | Has startability been established to exceed 5% at the modified GCM? | Startability rating: |  | % |  |  |  |
| **6** | Is the road train GCM within the component manufacturers’ limits? | | | |  |  |  |
| **7** | If the motor vehicle GCM exceeds 42.5 tonnes, is the prime mover fitted with a tandem rear drive axle group and is it equipped to provide positive locking of the inter-axle differential? | | | |  |  |  |
| **8** | Does the vehicle meet the speed limiting requirements of Australian Design Rule (ADR) 65/.. or Modification Code A5 if it is applicable? | | | |  |  |  |
| **9** | Does the vehicle meet the applicable requirements, including trailer signal application and release test times as well as air compressor capacity, of the design requirements portion of this code? | | | |  |  |  |
| **10** | Do the vehicle's dimensions meet the requirements of the design requirements portion of Modification Code S8? | | | |  |  |  |
| **11** | Are all axle groups on the vehicle ‘conforming axle groups’ and do they comply with the applicable axle group spacing requirements? | | | |  |  |  |
| **12** | Does the vehicle meet the electrical requirements of the design requirements portion of Modification Code S8? | | | |  |  |  |

### Advanced braking systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Braking systems** Check Yes, No, N/A as applicable: | | 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 or No as applicable: | | Yes | No |  |
| 1 | Does this modification meet all the requirements of the manufacturer’s guidelines / Modification Code S8? |  |  |  |
| 2 | Does the vehicle meet the requirements of ADR 64/.. ? |  |  |  |
| 3 | Are all supporting modifications performed and certified in accordance with the relevant sections of VSB6? |  |  |  |
| 4 | Is the vehicle in satisfactory mechanical condition? |  |  |  |
| 5 | Is the quality of the work to an accepted industry standard? |  |  |  |
| 6 | Does the vehicle continue to comply with ADRs and heavy vehicle standards regulations affected by the modification? |  |  |  |

### Authorisation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **If the answer to any relevant question is NO, the modification is not acceptable.** | | | | |
| **Comments:** |  | | | |
| **Examined by:** | | **Company (if applicable):** | | **AVE no.:** |
|  | |  | |  |
| **Signed:** | | **Modification certificate no.:** | **Modification plate no.:** | **Date:** |
|  | |  |  |  |