### 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:** |
|  |  |  |  |