

HEAVY VEHICLE MODIFICATIONS

Checklist S8

RATING OF PRIME MOVER  
FOR USE IN ROAD TRAIN

1.0 Vehicle componentry:

Engine:  Engine No:

Rated power @ rpm:  Governed Rpm:

Max torque @ rpm:  Nm

Tailshaft series/size:  Mfrs max torque:  Nm

Component:	Make/model	OEM Max GVM / GCM Rating
Transmission:	<input type="text"/>	<input type="text"/> kg
Low/Top ratios:	<input type="text"/> / <input type="text"/> :1	
Aux. Transmission:	<input type="text"/>	<input type="text"/> kg
Low/Top ratios:	<input type="text"/> / <input type="text"/> :1	
Rear Axle:	<input type="text"/>	<input type="text"/> kg
Low/Top ratios:	<input type="text"/> / <input type="text"/> :1	
Rear suspension:	<input type="text"/>	<input type="text"/> kg
Front axle:	<input type="text"/>	<input type="text"/> kg
Front Suspension:	<input type="text"/>	<input type="text"/> kg
Tyres Front:	<input type="text"/>	<input type="text"/> kg
Tyres Rear:	<input type="text"/>	<input type="text"/> kg
Chassis Section:	<input type="text"/>	
Wheelbase:	<input type="text"/>	Overhang: <input type="text"/>
Tow Coupling/Fifth Wheel Make Model:	<input type="text"/>	D Rating: <input type="text"/> Kn
Tow Coupling Overhang:	<input type="text"/>	(if applicable)

1.1 Road train prime mover test results

Speed limited by: Gearing or Road Speed Governor:

Maximum governed speed:  km/h

Brake timing test: Combination of vehicles? / Individual vehicle? (Delete as inapplicable)

Test results: Application  ms

Release  ms

Grade-ability: Calculated grade-ability at GCM  %

1.2 Modified Road Train GCM assigned  kg

Make/model of reference vehicle if used for comparison:

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(Y=Yes, N= No or N/A=Not Applicable)

2.0

**Chassis**

2.1 Does the chassis have adequate strength for the assigned GCM and have details of the reference vehicle used for comparison (or the truck manufacturer's letter or a Approved Person Engineer's report certifying adequacy of the chassis been retained for future audit?

2.2 Are the tow couplings and attachments adequate for the GCM as outlined in Section P?

3.0 **Driveline**

3.1 Does the grade-ability meet the requirement of Section 3.1 of this Code?

3.2 Are the ratings of all driveline components sufficient for the rated GCM?

3.3 If the prime mover GCM exceeds 42.5 tonnes, is the prime mover fitted with tandem rear drive axle group and is equipped to provide positive locking of the inter-axle differential?

4.0 **Speed limiting**

4.1 Does the vehicle meet the speed limiting requirements of Section 4.0 of this Code?

5.0 **Braking system**

5.1 Does the vehicle meet the applicable requirements, including trailer signal application and release test times and air compressor capacity, of Section 5.0 of this Code?

6.0 **Dimensions and axle group requirements**

6.1 Do the vehicle's dimensions meet the requirements of Section 6.0 of this Code?

6.2 Are all axle groups on the vehicle "conforming" and do they comply with the applicable axle group spacing requirements?

7.0 **Electrical**

7.1 Does the vehicle meet the requirements of Section 7.0 of this Code?

8.0 **Mechanical condition**

8.1 Is the vehicle in satisfactory mechanical condition?

9.0 **Workmanship**

9.1 Is the quality of workmanship for any modifications to a satisfactory standard?

**NOTE: If the answer to any relevant question is "NO", the modification is not acceptable.**

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Vehicle make / Model:

Chassis No/VIN:  Year of Mfr:

Vehicle Modified By:

Examined and Approved By:

Company (if applicable):

Modification Plate No:  Certificate number:

Signed when printed:  Certifying Officer No:

Date: