



CERTIFICATE OF ENGINEERING ACCEPTANCE

This certificate is issued in accordance with RIS-1530-PLT Issue 5

NAME OF VEHICLE ACCEPTANCE BODY

Interfleet Technology Ltd

ACCREDITATION CODE

IF

Vehicle Class / Description

977/Zweiweg/Unimog U1650/Type 9C

Vehicle Owner

Stobart Rail

Issue Date

17 December, 2015

Expiry Date

17 December, 2022

Vehicle Number(s)

99709_977010-6

First Of Class

Not known

Authorised by:

Bryan Lowe

Interfleet Technology Ltd

OFFICIAL STAMP



Reason for issue and Scope of Work

Certification of Road Rail Vehicle Unimog 1650. Chassis No. WDB 4271151W195311.
Stobart Rail Fleet No. WO61.
Assessed for compliance with RIS-1530-PLT, Issue 5.
Expiry date conforms to the requirements of RIS-1530-PLT.

Deviations associated with this certificate

From previous certificates:
Network Rail Deviation NR/09/1530/050/NC applies to this RRV for road -rail wheel loads.
Network Rail Deviation NR/09/1530/048/NC applies to this RRV for rail wheel profile.

Previous Certificate Number

Previous Engineering Acceptance Certificate IF/0446/12.

Maintenance Plan Details

Rail Maintenance Instruction Unimog U900 and U1650 - DJAUM001; Issue 2; December 15

Customer Copy

Certificate Number: IF/0641/15

Limitations of Use

1. The RRV shall only operate inside possessions.
2. When travelling/working, the RRV is within W6a gauge and road wheel exception as RIS-1530-PLT.
3. The road-wheel tyres encroach into the area below rail level by 10mm, and extend to 200mm outside the running edge of the rail, above rail level.
Prior to RRV use, a site survey shall be undertaken to assess potential damage to the infrastructure.
4. The RRV may be used with adjacent lines open to traffic, but only if the safe system of work has taken account of gauge exceedance to any adjacent lines.
5. For access/egress, the RRV shall only operate with the cab door adjacent to a cess or line closed to all train movements, or the safe system of work takes account of adequate clearance to adjacent lines.
6. The RRV will not activate train operated points.
7. The RRV must not travel or work on track with:
cants greater than 200mm; gradients greater than 1:25; and/or curve less than 80m.
8. When operating in reverse, unless the operator has a clear line of sight of the track and the signals ahead, movements of the RRV, with or without trailers, shall be controlled by ground staff.
9. For on/off tracking, a site specific work plan shall be used. The work plan shall be in compliance with the applicable module of Network Rail Infrastructure Plant Manual NR/PLANT/0200.
10. The RRV shall not be on/off tracked on cants greater than 150mm and/or gradients steeper than 1:25.
11. The RRV shall not on/off track, travel or work on live conductor-rail lines.
12. The RRV is permitted to on/off track, travel or work under live OLE, when used in conjunction with a safe system of work determined and authorised by taking guidance from the requirements of GE/RT8024;
 - Minimum OLE wire height of 4.165m.
 - The earth bonds on the RRV shall have been examined for security and presence, prior to use.
 - Except for the cab, access is NOT permitted onto any surfaces higher than 1.4m above rail.
13. The RRV is permitted to tow/propel, from the front and rear of the RRV, a consist of compatible air park/service-braked rail trailers as follows:
 - > A maximum of 6 trailers connected to the front and 9 on the rear.
Gross weight shall not exceed 150tonnes on the front; 230tonnes on the rear.
 - > A maximum of 15 trailers connected to the rear (No trailers connected to the front).
Gross weight shall not exceed 380tonnes.
 - >Gross weight shall not exceed 300tonnes on a 1:25 gradient.
The maximum towed and/or propelled weight may have to be reduced where the railhead conditions for adhesion and/or the ruling gradient may affect the safe traction performance of the RRV.
Park brake release pressure 8bar; service brake pressure 0-8bar.

Supplementary Information

1. The RRV is a Unimog U1650 Shunter with Zweiweg single-wheel rail gear.
2. Chassis No. WDB4271151W19311. Stobart Rail Fleet No. WO61.
3. The RRV can carry 3 persons in the cab.
The payload in the rear open body shall be limited to tools and equipment.
4. It operates in low-mode only.
5. Gross vehicle weight: 11.5tonnes.
6. Maximum speeds on rail shall not to exceed:
 - 20mph - plain line, RRV only;
 - 10mph - RRV + towing/propelling (maximum 150tonnes);
 - 5mph - RRV + towing/propelling (maximum 380tonnes);
 - 5mph - switches and crossings, RRV + towing/propelling (maximum 380tonnes);
 - 3mph - raised check/guard rails, RRV + towing/propelling;
 - 5mph - emergency recovery, RRV only.