

CERTIFICATE OF ENGINEERING ACCEPTANCE

This certificate formally records that the following vehicle(s) conform to the appropriate requirements as set out in RIS-1530-PLT.

NAME OF VEHICLE ACCEPTANCE BODY

Interfleet Technology Ltd

ACCREDITATION CODE

IF

Vehicle Class / Type

Road Rail Vehicle Rexquote Gigaailer 12 - Type 9B

Vehicle Operator

Various or Unspecified Companies

Vehicle Owner

Ready Power Engineering Ltd

Authorised by:



Bryan Lowe

Interfleet Technology Ltd

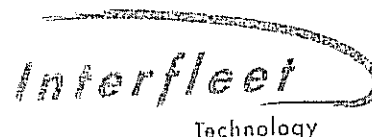
Issue Date

22 December, 2009

Expiry Date

22 December, 2016

(Where applicable due to a special limitation)



OFFICIAL STAMP

Vehicle Number(s)

99709_940710-5

Special Limitations

A RRV CONFIGURATION

1. Vehicle is Rexquote rail-conversion of road excavator with adjustable boom (1.92m main, 3.34m artic), and either 1.8m or 4.0m crane arms.
The crane arms are uniquely identified to the Rexquote vehicle number and calibrated to the Prolec RCI on this RRV. These arms shall NOT be fitted to any other RRV and they shall only be set-up/tested for use in accordance with the Rexquote Manual.
The RCI must be operational during all lifting duties and when used with attachments which affect machine stability (see E), RCI Serial Number 130236/323128, 2 sets of Duty Charts 180S301313 for 1.8m and 4.0m crane arms. Software version V2.09.
2. Permitted number of personnel to be carried: 2 in cab.
3. It operates on-rail in high-mode only. It has no load carrying capability.
4. It shall only be operated on rail when fitted with foam-filled tyres and rail wheel traction hubs, see C3.
5. It may work with attachments through the dipper link pins or quick hitch, see E.
6. It is fitted with boom height limiting device to permit use under live OLE, see D5 and D6.

B ON & OFF TRACKING AND EMERGENCY RECOVERY

1. For on/off tracking, a site-specific work plan for one of the following conditions shall be used.
The work plan shall be in compliance with the Rexquote Manual RQM10082 and Network Rail Specification NR/L2/RVE/0007:-
 - > Maximum track cant 100mm and/or gradient 1:29, on an approved RRAP.
 - OR
 - > A risk assessed procedure that is specific to the on and off tracking point.
2. For recovery refer to the Rexquote Manual. Maximum speed 3mph (5km/h) to avoid damage to the RRV.

Customer Copy

Certificate No: IF/0904/09

C RRV GAUGE

1. Travelling mode: the RRV is within W6a gauge and exception for road wheels as RIS-1530-PLT. Mirrors must be folded in.
2. Working mode: the counterweight, boom, dipper and attachments can be out of gauge, dependent on the Prolec Rated Capacity Indicator (RCI)/slew settings in use.
3. SAFETY NOTE: It is fitted with traction hubs that extend the overall width of the rail wheels to 162mm at rail level.
The RRV shall NOT be used on a track where guard rails or other similar equipment is present, unless the safe system of work that is specific to the possession details the controls that are necessary to ensure there is no risk of intrusion of the traction hubs into the area occupied by the guard rails.

D RRV LIMITATIONS OF USE

1. It shall only operate inside possessions.
2. It shall NOT on/off track or work, if adjacent lines are open to traffic.
3. It shall NOT on/off-track, travel and work on live conductor-rail lines.
4. It shall NOT on/off-track, travel or work under live OLE, except as D5 and D6.
5. It may on/off-track at a level crossing or travel under live OLE, when used in conjunction with a safe system of work determined and authorised in accordance with the requirements of GE/RT8024, and provided the boom/dipper is in the travel position. OLE minimum wire height 4.165m.
6. It is permitted to work under live OLE subject to:
 - There shall be no access onto the RRV except the cab.
 - The boom height limiting device shall be active to restrict the height of the boom.
 - The earth bonds on the RRV shall have been examined for security and presence, prior to the start of work.
 - The use of the RRV shall only be in accordance with the Rexquote Manual and in conjunction with a safe system work determined and authorised in accordance with the requirements of GE/RT8024, and that it accounts for a maximum height of the boom above rail of 3.565m. OLE minimum wire height 4.165m.
 - The use of attachments shall ensure they and their load do not exceed the height of the top of the boom.
7. For access/egress, the RRV shall only operate with the door to the cab adjacent to a cess or a line closed to all train movements, or the safe system of work to be adopted takes account of adequate clearances to adjacent lines.
8. Permitted speed
 - Maximum - 20mph (32km/h);
 - Switches & Crossings, and Raised Check Rails - 5mph (8km/h);
 - Towing/Propelling - 10mph (16km/h).
9. Travelling Mode.
The RRV may travel on track that does not exceed:
 - cant 200mm;
 - gradient 1:29.
10. Working Mode.
The RRV shall not work on track that exceeds any combination of:
 - cant 150mm;
 - twist 1/150 over the RRV wheelbase (27mm twist);
 - gradient 1:29.
11. Limitation to ensure stability:
 - Permitted to lift and carry through 360 degrees operation, see Duty Charts.
 - Controlled by Prolec RCI which shall be active when the RRV is in use, except as E1.
 - Movement of boom towards backward stability limit shall be at moderate/low speed.
12. It is permitted to tow and/propel rail trailers with compatible coupling and hydraulic-operated brake systems, in one of the following consists:-
 - > Trailers with emergency/parking brake only.
 - Maximum weight shall not exceed 29tonnes/4 trailers.
 - Hydraulic supply pressure for park brake release is 35bar.
 - > Rexquote trailers with emergency/parking brake and service brake.
 - Maximum weight shall not exceed 75tonnes/4 trailers.
 - Hydraulic supply pressure for park brake release is 35bar.
 - Hydraulic supply pressure for service brake is 100bar.

Note: All trailers shall have the service brake connected and functional.
The maximum towed and/or propelled weight may have to be reduced where the railhead condition for adhesion and/or the ruling gradient may affect the safe traction performance of the RRV.

E RRV ATTACHMENTS

The RRV may work with attachments.

Their use in modes E1 or E2 shall comply with the following, as applicable:

- Where specified, and including all lifting accessories, the attachment shall have a current certificate of approval, test and/or thorough examination.
- The attachment shall only be used in accordance with the manufacturer's safety and operating instructions, and the safe system of work for the possession.
- Use of the attachment shall not involve exceeding the vehicle's rated capacity for lifting. Before switching OFF the RCI, the attachment and its contents (e.g. bucket full of ballast) shall be moved through the planned range of movements to confirm that the working mode is within the vehicle's lifting and stability capacity.
- Except for the quick hitch, the attachment shall not be connected to the vehicle during the on or off tracking procedure, unless safe to do so.
- The attachment shall be maintained in accordance with the manufacturer's and/or other approved instructions.

E1. The Prolec RCI may be switched OFF, typically digging mode including;

- General purpose earth moving buckets.
- Ballast profiling bucket.
- Trenching buckets.
- Earth moving clamshell grab.
- Flail cutting head.

NOTE: Caution must be exercised with this type of attachment as its use may adversely affect the stability of the RRV when it is working.

E2. The Prolec RCI shall be switched ON, lifting mode:

- Lifting accessories (LOLER Regulations).
- An attachment that is mechanically fixed to and/or powered from the RRV.
Any such attachment and its use shall only be with the approval of the infrastructure controller, see RIS-1530-PLT Issue 1 Clause 8.4

Referenced Certificates

This Certificate of Engineering Acceptance has been issued in accordance with GM/RT2000 Issue 2, on the basis of the following Certificates of Conformance and previous Certificates of Engineering Acceptance.

Supporting Certificates

Vehicle Design

Vehicle Construction

Vehicle Maintenance

IF/MP/0444/09

Superseded Certificates

Engineering Acceptance


Reasons for non inclusion of a Certificate of Conformance or a Certificate of Engineering Acceptance:-
No previous Engineering Acceptance Certificate.
Vehicle Design and Construction Certificates not applicable.

RGS Catalogue

The Mandatory Requirements and scope of work against which conformance has been confirmed:
Railway Group Standard Catalogue number GA/RM6501 Issue 6 December 2009

Customer Copy

Bryan Lowe

Authorised by: 

Certificate No: IF/0904/09



Interfleet

Technology



Vehicle Data

Route Availability No:	(Laden)	No Change	(Tare)	No Change
Maximum Speed (mph):	(Laden)	20	(Tare)	20
Applicable Gauge or Portfolio Reference :	W6a with exception as RIS-1530-PLT			
Minimum Curve Radius:	80m			
Applicable Braking Curve(s):	Road/Rail Vehicles RIS-1530-PLT Clause 5.6.2.1			

Mandatory Data for Inclusion in RSL

NONE

Scope of Work

Certification of new Road Rail Vehicle.

Serial No. 180S301313. Rexquote No. 2234A. Ready Power Fleet No: FR644A.

Assessed for compliance with RIS-1530-PLT, Issue 1.

Expiry date conforms to the requirements of RIS-1530-PLT.

**CERTIFICATE OF CONFORMANCE FOR
VEHICLE MAINTENANCE**

This certificate formally records that the following vehicle(s) conform to the appropriate requirements as set out in
RIS-1530-PLT.

NAME OF CERTIFICATION BODY

Interfleet Technology Ltd

ACCREDITATION CODE

IF

Vehicle Type / Class Road Rail Vehicle Rexquote Gigarailer 12 - Type 9B

Vehicle Operator Various or Unspecified Companies

Vehicle Owner Ready Power Engineering Ltd

Authorised by: 
Greg Lilleker
Interfleet Technology Ltd

Issue Date 21 December, 2009

Expiry Date 21 December, 2016
(Where applicable due to a special limitation)



Interfleet
Technology

OFFICIAL STAMP

Vehicle Number(s)

99709_940710-5

Special Limitations

None

Maintenance Plan Documentation

<u>Plan Name / Description</u>	<u>Issue</u>	<u>Issue Date</u>
Rexquote Maintenance Plan RQM10082	4	16/12/2009

RGS Catalogue

The Mandatory Requirements and scope of work against which conformance has been confirmed:
Railway Group Standard Catalogue number GA/RM6501 Issue 6 December 2009

Vehicle Data

Applicable Gauge or Portfolio Reference : W6a with exception as RIS-1530-PLT

Scope of Work

Certification of new Road Rail Vehicle.

Customer Copy

Certificate No: IF/MP/0444/09



This Certificate of Conformance for Vehicle Maintenance has been issued on the basis of confirmation of conformance with the Mandatory Requirements.

Serial No. 180S301313, Rexquote 2234A. Ready Power Fleet No. FR644A.

Up issued maintenance plan assessed for compliance with RIS-1530-PLT.

Expiry date conforms to the requirements of RIS-1530-PLT.