

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 Issue 2.

NAME OF VEHICLE ACCEPTANCE BODY

Interfleet Technology Ltd

ACCREDITATION CODE

IF

Vehicle Class / Type

Road Rail Vehicle Rexquote Komatsu PW160 Megarailer - Type 9B

Vehicle Operator

L&W Contractors Ltd

Vehicle Owner

L&W Contractors Ltd

Authorised by: 

**Chris Wheatley
Interfleet Technology Ltd**

Issue Date

16 October, 2012

Expiry Date

17 February, 2019

(Where applicable due to a special limitation)



Interfleet
Technology
OFFICIAL STAMP

Vehicle Number(s)

99709_940746-9

Special Limitations

A CONFIGURATION

1. The RRV is a Rexquote rail-conversion of road excavator with 5.02 mono-boom and 2.1m dipper.
2. It is fitted with a Prolec Rated Capacity Indicator (RCI) which must be operational during all lifting duties and when used with attachments which may affect the RRV stability in working mode.
RCI software version - V2.13.01.00. Duty Charts - Komatsu PW160 V04 / H55559.
The RCI has a tandem lift mode.
Lifting duties shall only be undertaken through the permanently affixed Miller quick hitch. Maximum safe working load 10 tonnes.
3. The interrogation and down-loading of the data recorder, (part of the RCI), shall be managed by the RRV owning/operating company, in accordance with their maintenance policy and the RCI Operator's Manual.
4. It operates on rail in high-mode only. It has no load carrying area.
It is fitted with a direct rail-wheel disc-braking system.
5. Permitted number of personnel to be carried: 2 in cab.
6. Gross vehicle weight is 22.8 tonnes.

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 RQM20047 and the Network Rail Standard NR/L2/RMVP/0200/P007; also see Limitations D:-
 - > Maximum track cant 100mm and/or gradient 1:25, on an approved RRAP.
 - OR
 - > A risk assessed procedure that is specific to the on and off tracking point.

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2. For recovery refer to the Rexquote Manual. Maximum speed 3mph (5km/h) to avoid damage to the RRV.

C GAUGE

1. Travelling mode - RRV is within W6a gauge and exception for road wheels as RIS-1530-PLT. When travelling, mirrors must be folded in.
2. Working mode - the counterweight, boom, dipper and attachments can be out of W6a gauge, dependent on the RCI settings in use. Minimum underside height of tail swing above rail level is 1360mm. Maximum tail swing lateral gauge exceedance is 690mm (i.e. 1383mm from the running edge of the rail).

D LIMITATIONS OF USE

1. This RRV is NOT permitted outside a possession.
 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 or work under live OLE, except as D5.
 5. It may on/off track on an approved RRAP 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. Minimum OLE wire height of 4.165m.
 6. Except for the cab, when the RRV is under live OLE access is NOT permitted onto any surfaces higher than 1.4m above rail.
 7. For access/egress, the RRV shall only operate with the cab door adjacent to a cess or a line closed to all train movements, or the safe system of work 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. When reversing, the RRV shall only proceed at walking speed with the driver utilising the CCTV and/or ground staff, until the superstructure/boom can be slewed to face the direction of travel.
 10. Travelling Mode: The RRV shall NOT travel on track that exceeds cant 200mm and/or gradient 1:25.
 11. Working Mode: The RRV shall NOT work on track that exceeds cant 150mm and/or gradient 1:25.
 12. Limitation to ensure stability:
 - Controlled by Prolec RCI which shall be active when the RRV is in use, except as E.
 - Movement of boom towards backward stability limit shall be at moderate/low speed.
 - Permitted to lift and carry through 360degrees operation, see Duty Charts.
 13. It is permitted to tow and/or propel compatible rail trailers with brake systems as follows:-
 - > Air brakes - supply pressure for park brake release is 8bar, and for service brake is 0-8bar. Maximum of three trailers with park and service brakes and air reservoirs. Maximum towed/propelled weight 22.8 tonnes.
 - OR
 - > Hydraulic brakes - supply pressure for park brake release is 40bar. Maximum of four trailers with park brake only. Maximum towed/propelled weight 22.8 tonnes.
- Note: - The towed and/or propelled trailer consist shall not be of mixed brake type.
- 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.

E ATTACHMENTS

The RRV may work with attachments through the dipper or quick hitch.
Any such attachment and its use shall only be with the approval of the infrastructure controller.

Attachment use shall also comply with the following, and as detailed in the Method Statement for the possession:

- 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 operating instructions, and the documented safe system of work.
- Use of the attachment shall not involve exceeding the vehicle's rated capacity for lifting.
- The RCI shall be switched ON (Lifting mode) for all lifting duties, and when using an attachment that may have a significant adverse effect on stability of the RRV.
- The RCI may only be switched to Non-RCI (Non-Lifting Mode) for digging, ballast profiling, vegetation control, non-lifting or similar work processes. Before work commences, the

attachment and its contents (e.g. bucket full of ballast, if applicable) shall be moved through the intended range of movements under control of the RCI, to confirm that the planned work is within the vehicle's lifting capacity and stability.

- Except for the quick hitch, attachments should not be connected to the vehicle during on or off tracking, unless safe to do so.

Referenced Certificates

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

Engineering Acceptance

IF/0091/12

RGS Catalogue

The Mandatory Requirements and scope of work against which conformance has been confirmed:
Railway Group Standard Catalogue number and date: Issue 3 September 2012

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			

Maintenance Plan Documentation

L&W Contractors Vehicle Maintenance Plan Komatsu PW160 Megarailer, QM6/WI/02, Issue 3, Oct '12.
Rexquote Komatsu PW160 Megarailer - Operating and Maintenance Manual RQM20047; Issue 1; 01/12/2011.
Maintenance Plan Addendum RQMA0043; Issue 10; dated 2nd October 2012 - Rail Wheel Braking System
Rail Mounted Vehicle Service Manual.

First Of Class

This vehicle on this certificate.

Scope of Work

Certification of new Road Rail Vehicle.
Serial No. H55559. Rexquote No. 2310. L&W Fleet No. RRV128.

Assessed for compliance with RIS-1530-PLT Issue 2, including new maintenance manuals, and a direct rail-wheel disc-braking system (Network Rail type-approved).

On this certificate: Addition of Maintenance Plan Addendum RQMA0043 and up-date L&W Maintenance Plan Issue number and date.

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

Chris Wheatley

Authorised by: 

Certificate No: IF/0658/12

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