

Certificate of Authorisation of Variation

Standard Details

Title: Rail Industry Standard for Engineering Certification of Railborne Plant
 Ref: RIS-1710-PLT
 Issue No. 2.1
 Date of Issue: 02 Mar 2019
 Clause No(s): 3.5

Module Details:

3.5 Railborne plant re-certification

3.5.1 All OTP shall be subject to the engineering conformance process every seven years for compliance with the latest applicable requirements.

3.5.2 Engineering conformance assessment of railborne plant for seven-year certification shall be undertaken in accordance with the relevant parts of the process set out in 3.2.

Where modifications have been necessary to achieve compliance, the requirements of 3.3 are also applicable.

Variation Details

Route/Project: National/Project
 Delivery Unit(s) / Area(s): All Routes
 Type of Variation Approved: Temporary Variation
 Applicant: Martin Shovlin - Shovlin Plant Hire Ltd.
 Tracker Reference Number: TR70237

Why can't you comply with the existing requirement?

We are seeking Life Extension Temporary variation for a duration of 22 weeks from date of expiry for a Thwaites TD12 multi body RRV.

It has not possible for us to deliver the upgrade of the TD12 before its ECC expiry date due to the existing upgrade work which is still being carried out on another TD12 unit.

We had the first TD12 fully upgraded whereby we undertook all the refurbishment work, including the refurb of the cab, renewal of all hoses, engine work and full repaint and Rexquote undertook the specialist rail side such as brakes, recovery system etc. This unit took much longer to rework than first thought simply due to the issues associated with specialist part supply such as solenoids, electro valves, and various other electrical control equipment.

The second machine is currently been worked on by Rexquote but it won't be available for testing for 6-8 weeks again because of issues with parts supply.

We have an arrangement in place with Rexquote where one upgrade slot was allocated to us and machines were upgraded on a "one in", "one out" rota. Unfortunately the upgrade of the second TD12 is taking much longer than envisaged due to the issues now associated with specialist parts supply. The second unit is progressing and Rexquote have made sufficient engineering parts to ensure the remaining TD12's are progressed promptly as well as forward ordering the required electro parts but this is still dependant on the parts supply industry and its ability to deliver on time.

Where can't you comply with the existing standard?

National - All Routes
 Thwaites TD12-TD12-1151 - 99709 949029-1

What are you proposing to do instead of the existing requirement?

Request current recertification expiry date is extended by 22 weeks and that we maintain and operate under existing arrangements.

What is your plan to achieve compliance, the requested alternative practice or why the requirement is not appropriate?

The vehicle will be upgraded as soon as practicable.

What is the impact(s) on Safety and Performance of the proposed arrangements?

"There is a minimal risk to issuing the variation as the machine has operated consistently in the fleet and has a great safety and reliability record.

The machine does not carry out lifting duties and is used primarily for transporting the body type such as tipper, flat deck, jetter vactor or ballast body to and from site.

It already has full LED lighting and dual camera systems and has recently been subjected to full thorough examination and brake test.

The machine has a 100% reliability rating on Rail PPS.

This years shifts detailed below;

(Thwaites TD12-1151) 99709 949029-1 106 shifts"

What risks have been identified and mitigations proposed for the variation?

To continue to operate this machine in accordance with the provisions of their current Engineering Acceptance Certificate and the requirements of the Infrastructure Plant Manual and Rulebook Handbook 15. The machine will continue to be maintained in accordance with its accredited Maintenance Plan.

Certificate Conditions:

All required maintenance, inspections and tests shall be carried out in accordance with the vehicle's certified Maintenance Plan for the duration of this Life Extension.

Actioned By: Mike Lomas - Senior Engineer

Certificate Issued Date: 16 Dec 2021

Authorised By: Peter Stone - Principal Plant Engineer

Certificate Expiry Date: 03 Dec 2022

The 'Applicant' is responsible for communicating the associated Action Plan to all persons affected by this authorisation

Ta12-x401



ENGINEERING ACCEPTANCE CERTIFICATE

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

NAME OF CERTIFICATION BODY

Atkins Rail

ACCREDITATION CODE

NS

Vehicle Class/Description Road Rail Vehicle Thwaites TD12 Multi-Body RRV (Type 9B)

Vehicle Owner Phillip Shovlin Plant Hire Ltd

Issue Date 24th June 2015

Expiry Date 12th December 2021

Vehicle Numbers: 99709 949029-1

FIRST OF CLASS

Certificate number of First of Class

YES	NO
	X

N/A

Authorised by :

Signatory Name:

SP Rice

Authorised Signatory:

Reason for issue and Scope of Work

Previous scope of work;

Upgrade to RIS-1530-PLT, Issue 5, June 2014.

Tracker 14788; To allow the continued usage of the listed vehicles to continue towing and propelling trailers with hydraulic service and park brakes.

Scope of work for this certificate;

Amendment to Limitations of Use 9. To include additional towing details missed from certificate IF/0885/06.

Deviations associated with this certificate: Tracker No. 14788

Previous Engineering Acceptance certificate number: NS/5647/14

	Identification Number	Issue No.	Date
Maintenance plan Id.	SPMM0005	02	November 2014
Maintenance plan title	Shovlin Plant Hire Ltd - Thwaites TD12 Maintenance Plan		
Maintenance plan Id.	RQMA0043	12	11 th August 2014
Maintenance plan title	Rexquote REXPRO4 Rail Wheel Braking System Service Manual.		

Limitations of Use

1. It shall only operate inside possessions.
2. It shall **NOT** on/off track, travel or work on live conductor rail lines.
3. The vehicle shall **NOT** on/off track with adjacent lines open to traffic.
4. It shall **NOT** on/off track, or work under live OLE.
2. For on/off tracking, a site specific plan shall be used taking account of the applicable module(s) of Network Rail Infrastructure Plant Manual NR/PLANT/0200.
3. Detailed in Rexquote Manual (RQM0039). A RRAP or temporary crossing must be used, maximum track cant 150mm.
4. Alternatively to Limitation 3, a risk assessed procedure may be used that is specific to the possession and taking account of the applicable module(s) of Network Rail Standard NR/PLANT/0200.
5. It may travel under live OLE in accordance with the Method Statement for the possession as determined and approved in accordance with the requirements of GE/RT8024, and provided the demountable equipment fitted is secured in the travel position.
6. The vehicle shall only be on/off tracked at an approved on/off tracking point (RRAP) (unless the OTP has approval from Network Rail for on/off tracking at other locations).
7. Except for the cab, when the RRV is under live OLE access is **NOT** permitted onto any surfaces greater than 1.4m above rail.
8. 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.
9. Fitted with hydraulic park-brake control and service brake control for compatible rail trailers.
It is permitted to tow and/or 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 30 tonnes.
 - RRV shall be fitted with a minimum of 6 tonnes of ballast for adhesion if there is no body fitted.
 - Rexquote trailers with emergency/parking brake and service brake.
 - Maximum speed 5 mph (8km/h): Laden.
 - The service brake and park brake controls shall be functional.
 - The RRV shall only be coupled to the trailers with the straight tow bars and front towing adaptor supplied by Rexquote for this specific use.
 - RRV shall be fitted with minimum 6 tonne ballast for adhesion.
 - Each trailer rated capacity shall not be exceeded.
 - Maximum braked towed/propelled weight shall not exceed 140 tonnes.
 - The loading sequence and total load of the consist shall be in accordance with the Method Statement. The total load may have to be limited if the ruling gradient and rail-head conditions in the possession reduces adhesion for the RRV in traction.
10. When travelling, RRV vehicle is within W6a gauge and exception for road wheels as RIS-1530-PLT.
When travelling, mirrors must be folded in.
11. When working, the demountable bodies can be out of gauge.
12. This machine is fitted with **DIRECT** rail wheel braking. It does not use the brakes applied to the road wheels acting on the tread of the rail wheel as the primary means of braking.

SUPPLEMENTARY INFORMATION

1. Vehicle is Rexquote rail-conversion of Thwaites multi-body road vehicle.
2. Serial No.1-96663. Rexquote No 1151. Shovlin Plant No. X401 ATD.
3. It shall operate on rail in high mode (rail wheels only).
4. The vehicle is approved for use with the following demountable bodies:-
 - 3-way tipping skip (maximum load = 9000kg)
 - 4 cu.m concrete mixer.
 - 4 cu.m concrete dispenser
 - Vac/air cleaning unit.
5. Route availability No; Unchanged.
6. Applicable Gauge or Portfolio Reference; W6a as RIS-1530-PLT
7. Applicable Braking Curve; Road/Rail Vehicles RIS-1530-PLT Issue 5. Clause 5.6.2.1.
8. This machine is fitted with **DIRECT** rail wheel braking. It does not use the brakes applied to the road wheels acting on the tread of the rail wheel as the primary means of braking.

9. Data Table;

Maximum travelling speed – plain line	20 mph
Maximum working/towing/propelling speed	10 mph
Maximum speed – switches, crossings and raised check rails	5 mph
Maximum speed – emergency recovery	3 mph
Maximum Travelling cant	200mm
Maximum working cant	150mm
Maximum on/off track cant	150mm
Maximum working and travelling gradient	1:25
Maximum on/off track gradient	1:25
Minimum curve radius	80m

Authorised By:

Name of Signatory: S P Rice