



On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 6

Certificate no.: 71/1029/22

Report no.: TRUK/B 22/024, (Issue 01, 28/01/2021)

The report is an integral part of this Certificate.

Name of Plant Assessment Body	TÜV Rheinland UK Limited 5 Mallard Way Pride Park Derby DE24 8GX United Kingdom	Organisation Code :	71
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Vehicle Class / Description	970/Liebherr/A900ZW612/9C
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Vehicle Asset Manager	Story Plant Ltd
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Issue Date	28-01-2022
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Expiry Date (if any)	14-07-2024
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Vehicle Number(s)	99709 970063-2
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First in Class:	No
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Certificate No. of First in Class:	Engineering Conformance Certificate 71/1028/22 against RIS-1530-PLT Issue 6.
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Authorised by:

ESig: NDC/TUV/22/076

Official Stamp of TRUK, CAB Rail



Signature

Certifier / Signatory Name	Neil Charles	Senior Engineer
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Reason for Issue and Scope of Work

Reason for Issue:
Certification of Road Rail Liebherr A900

Serial Number: 61211763
Fleet Number: 0428

Assessed for compliance with RIS-1530-PLT Issue 6.

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

Scope of Work
Engineering Change - Liebherr A900 Towing Capacity Increase assessed for compliance with RIS-1530-PLT, Issue 6.

Deviations associated with this Certificate (if none state "NONE")

NONE

Previous Certificate No.
(if none state "NONE"): 21/0234/21

Maintenance Instruction Details

Maintenance Instruction Title: Story Operation and Maintenance Addendum - Road Rail - Liebherr A900zw

Maintenance Instruction Number: Story1

Issue No.: 02

Date: 24/01/2022

Limitations of Use (these words are mandatory where applicable)

1. The vehicle shall only be used in a possession.
2. For on/off tracking, a site-specific work plan shall be used, in compliance with the Story Manual STY/PRO/48 and the applicable module of the Network Rail Plant Manual NR/L2/RMVP/0200. Maximum on/off tracking cants NOT greater than 150mm and/or gradient NOT greater than 1:25.
3. For recovery refer to the Story Contracting Manual.
4. The vehicle shall NOT on/off track or work, if adjacent lines are open to traffic.
5. The vehicle shall NOT on/off-track, travel and work on live conductor-rail lines.
6. The vehicle shall NOT on/off-track, travel or work under live OLE, except as Limitation 7.
7. The vehicle 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 by taking guidance from the requirements of GE/RT8000-HB16, and provided the boom/dipper is in the travel position. Minimum OLE wire height of 4.165m.
8. Except for the cab, when the RRV is under live OLE access is NOT permitted onto any surfaces greater than 1.4m above rail.
9. 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.
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. The vehicle will not activate train operated points.
13. When reversing, the RRV shall only proceed at walking speed with the driver utilising the ground staff, until the superstructure/boom can be slewed to face the direction of travel.
14. The vehicle is permitted to tow and/or propel rail trailers with compatible coupling and air brake systems. Maximum towed/propelled weight is 280tonnes / 12 trailers.
It is permitted to tow trailers from the front or rear.
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 vehicle.
Maximum air supply pressure for park brake release is 8.0bar, and for service brake is 0-8.0bar.
A. OPERATION ON W6A NON CONDUCTOR-RAIL LINES > the RRV shall be fitted with twin-wheel foam-filled road tyres.
15. When in travelling mode, the RRV is within W6a gauge and the exceedance permitted in non-3rd rail areas for road wheels as RIS-1530-PLT. Mirrors must be folded in.
16. When in working mode, the vehicle may be out of W6a gauge.
Minimum underside height of tail swing above rail level is 1274mm.
Maximum lateral tail swing 1283mm from the running edge of the rail, (i.e. gauge exceedance 590mm).
17. Gauge exceedance - The twin road wheel tyres encroach into the area below rail head level by 70mm; and extend 520mm outwards and 60mm inwards from the running edge of each rail.
18. Prior to the RRV use, a site survey shall assess the potential for damage to the infrastructure equipment, and identify restrictions which take into account guardrails, checkrails and the road tyres.
B. OPERATION ON W6A ISOLATED CONDUCTOR-RAIL LINES > the RRV shall be fitted with singlewheel foam-filled road tyres and a Story Contracting compensating weight attached to each road wheel centre.
19. When in travelling mode, the RRV is within W6a gauge and the exceedance permitted in 3rd rail areas or road wheels as RIS-1530-PLT. Mirrors must be folded in.
20. When in working mode, the vehicle may be out of W6a gauge.
Minimum underside height of tail swing above rail level is 1274mm.
Maximum lateral tail swing 1283mm from the running edge of the rail, (i.e. gauge exceedance 590mm).
21. Gauge exceedance - The single road wheel tyres encroach into the area below rail head level by 20mm; and extend 200mm outwards and 100mm inwards from the running edge of each rail.
22. Prior to the RRV use, a site survey shall assess the potential for damage to the infrastructure equipment, and identify restrictions which take into account guardrails, checkrails and the road tyres.

Supplementary Information - (Optional – minimum requirements where applicable)

1. The RRV is a Liebherr OEM rail-conversion of road excavator with boom 2.80m, artic 3.50m and 2.2m dipper. Serial No. 61211763. Story Fleet No. 0428.
2. The vehicle operates on rail in low-mode only. It has no load carrying area.
3. Permitted number of personnel to be carried: 2 in cab.
4. Gross vehicle weight is 23 tonnes.
5. Maximum speeds travelling on rail not to exceed:
 - 13mph (20km/h) Plain line;
 - 5mph (8km/h) Switches & Crossings and Raised Check Rails;
 - 10mph (16km/h) Towing/Propelling;
 - 3mph (5km/h) Emergency recovery.
6. The vehicle is fitted with a GKD Rated Capacity Indicator (3RCI) which shall be operational during all lifting duties and when used with attachments which may affect the RRV stability in working mode.
Lifting duties shall only be undertaken through the identified dipper lifting point.
When fitted with single foam-filled road tyres, the compensating weight attached to each road wheel centre has no effect on the existing calibration/duty charts of the Rated Capacity Indicator, the lifting capacity and stability of the RRV.
7. RCI Information:
 - Model - GKD 3RCI;
 - RCI software version - 9.24;
 - Duty Charts - Liebherr A900ZW 61210209, dated 06/02/2017.
8. The vehicle may work with a range of attachments through the dipper link pins or quick hitch.
9. Where an attachment is known to have a significant adverse affect on vehicle stability, the RCI shall always be in 'Lift Mode' when using the attachment.
10. 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.