



On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 7.2

Certificate no.: 71/1342/25

Report no.: TRUK/B 25/132, (Issue 1, 10/07/2025). This 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 (a UKAS accredited certification body No. 8400)
Vehicle Class / Description	970/Liebherr/A900ZW612/9C		
Vehicle Asset Manager	Story Plant Ltd		
Issue Date	11-07-2025		
Expiry Date (if any)	11-07-2032		
Vehicle Number(s)	ZZ709 970063-2		
First in Class:	Yes		
Certificate No. of First in Class:	ZZ709 970063-2 on certificate 71/1342/25, against RIS-1530-PLT Issue 7.2.		
Authorised by:	Official Stamp of TRUK, CAB Rail		

ESig: NDC/TUV/25/0696

Certifier / Signatory Name Neil Charles Principal Engineer



Reason for Issue and Scope of Work

Previous Certificate:

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

This Certificate:

Certification of upgraded Liebherr A900 Excavator.

Serial No. 61211763

Fleet No. 0428

Assessed for compliance with RIS-1530-PLT, Issue 7.2.

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

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

NONE.

Previous Certificate No.

(if none state "NONE"): 71/1029/22

Maintenance Instruction Details

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

Maintenance Instruction Number: Story1

Issue No.: 3

Date: 07/2025



Limitations of Use *(these words are mandatory where applicable)*

1. The RRV shall only operate inside a possession.
2. 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.
3. The RRV shall NOT on/off track, travel or work on live conductor-rail lines.
4. The RRV shall NOT on/off track or work if adjacent lines are open to traffic.
5. The RRV shall NOT work under live OLE.
6. The RRV may on/off track and 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.
7. Except for the cab, when the RRV is under live OLE, access is NOT permitted onto any surfaces higher than 1.4m above rail.
8. For on/off tracking, a site specific work plan shall be used, in compliance with the Story Manual, taking account of the requirements in Network Rail Infrastructure Plant Manual NR/L2/RMVP/0200.
9. The RRV shall NOT be on/off tracked on:
 - Cants greater than 150mm and/or;
 - Gradients greater than 1:25.
10. The RRV will not activate train operated points.
11. The RRV shall NOT travel on track with:
 - Cants greater than 200mm;
 - Gradients greater than 1:25 and/or;
 - Curves less than 80m.
12. The RRV shall NOT work on track with:
 - Cants greater than 150mm;
 - Gradients greater than 1:25 and/or;
 - Curves less than 80m.
13. 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.
14. 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 a safe system of work takes account of adequate clearances to adjacent lines.
15. Where an attachment is known to have a significant adverse effect on RRV stability, the RCI shall always be in 'Lift Mode' when using the attachment.
16. The RRV is permitted to tow and/or propel rail trailers with compatible coupling and air brake systems.
 - Maximum braked towed/propelled weight is 280 tonnes / 12 trailers.
 - The RRV can tow/propel trailers from the front or rear.
 - Maximum air supply pressure for the park brake release is 8.0bar, and for service brake is 0-8.0bar.

NOTE: The maximum towed and/or propelled weight may have to be reduced where the railhead conditions for adhesion and/or running gradient may affect the safe traction performance of the RRV.

Operation on W6a Non-conductor rail lines – The RRV shall be fitted with twin-wheel foam-filled road tyres.

17. 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.
18. 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).
19. 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.

Operation on W6a isolated conductor rail lines – The RRV shall be fitted with single-wheel foam-filled road tyres and a Story compensating weight attached to each road wheel centre.

20. 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.
21. 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).
22. 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.

Supplementary Information - (Optional – minimum requirements where applicable)

1. The RRV is a Liebherr OEM rail-conversion of a road excavator with 2.80m boom, 3.50 artic and 2.2m dipper.
2. Serial No. 61211763 Story Fleet No. 0428
3. The RRV is approved to carry 2 persons seated in the cab.
4. The RRV operates on rail in low-mode only. It has no load carrying area.
5. Gross vehicle weight is 25.315 tonnes.
6. For recovery refer to the Story Manual.
7. Maximum permitted speeds travelling on rail not to exceed:
 - 13mph Plain line;
 - 5mph switches and crossings;
 - 5mph raised check/guard rails;
 - 10mph towing/propelling;
 - 3mph emergency recovery.
8. Load Lifting points;
 - Auxiliary eye 7,500kg

9. RCI Information:

- Fitted with GKD RCI system
 - Model – GKD 3RCI Touch Screen;
 - Software Version: 9.61
 - Serial Number: 01220T
 - Duty Chart – Liebherr A900zw, 0428 – 612/11763, 02-Jul-2025
 - The RRV has Normal and Tandem Lifting Modes
10. 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
11. The vehicle may work with a range of attachments through the dipper link pins or quick hitch.
12. 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.