



On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 6

Certificate no.: 71/1228/22

Report no.: TRUK/B 22/114, (Issue 1, 05-08-2022) The report is an integral part of this Certificate.

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| 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) |
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| Vehicle Class / Description | 911/Komatsu/PC138US/9A |
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| Vehicle Asset Manager | Story Plant Limited |
| Issue Date | 18-11-2022 |
| Expiry Date (if any) | 18-11-2029 |

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| Vehicle Number(s) | 99709 911095-6 |
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|---|---|
| First in Class: | No |
| Certificate No. of First in Class: | 99709 911109-5 on certificate 71/1137/22, against RIS-1530-PLT Issue 6. |

Authorised by:

Official Stamp of TRUK, CAB Rail



Esig: NDC/TUV/22/620

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

Reason for Issue:
Certification of upgraded Komatsu PC138 Excavator.

Serial No: 6109 Fleet No: 1114-05

Assessed for compliance with RIS-1530-PLT, Issue 6.
Expiry date conforms to the requirements of RIS-1530-PLT.

Scope of Work
Certification of upgraded Komatsu PC138 Excavator.

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

Previous Certificate No.
(if none state "NONE"): 21/0356/21

Maintenance Instruction Details

Maintenance Instruction Title: Operation & Maintenance Manual PC138US-2 Hydraulic Excavator Dual Purpose Road-Rail

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| Maintenance Instruction Number: UEAM 004100 | Issue No.: 1 | Date: 07/07/2004 |
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Maintenance Instruction Title: Komatsu 138 Addendum

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| Maintenance Instruction Number: EPI-R29-1 | Issue No.: 1.0 | Date: 27/05/2022 |
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Limitations of Use (these words are mandatory where applicable)

1. The RRV shall only operate inside possessions.
2. When travelling, the vehicle is within W6a gauge as defined in RIS-1530-PLT. When travelling, the mirrors must be folded in.
3. When working the counterweight, boom, dipper and attachments can be out of W6a gauge, dependent on the RCI setting in use. Minimum underside height of tail swing above rail level is 1110mm. Maximum tail swing lateral gauge exceedance is 70mm.
A site survey shall be undertaken to assess potential damage to infrastructure equipment prior to use.
4. Vehicle shall **NOT** on/off track, travel or work on live conductor-rail lines.
5. Vehicle shall only be permitted to work ALO with the InTeEx RCCS RCI system active, the Slew Limit and/or Virtual Wall correctly set and the system functionality has been proven correct prior to use.
ALO working shall only be in accordance with the safe system of work for the possession, taking account of the extra gauge exceedance caused by attachments.
6. Vehicle will not activate train operated points.
7. Vehicle shall not travel on track with:
 - Cant greater than 200mm;
 - Gradient greater than 1:25;
 - Curve less than 80m.
8. Vehicle shall not work on track with:
 - Cant greater than 150mm;
 - Gradient greater than 1:25;
 - Curve less than 80m.
9. When reversing, the vehicle shall only proceed at walking speed with the driver utilising CCTV and/or ground staff, until the superstructure/boom can be slewed to face the direction of travel.
10. For access/egress, the vehicle 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.
11. Setting up and packing away – from inside the cab.
12. The vehicle shall not be on/off tracked on:
 - Cant greater than 150mm;
 - Gradient greater than 1:25.
13. For on/off tracking, a site specific work plan shall be used taking into account of the requirements in Network Rail Infrastructure Plant Manual NR/L2/RMVP/0200.
14. The vehicle shall NOT on/off track, travel or work under live OLE, unless the InTeEx RCCS RCI system is active, the Height Limit correctly set and the system functionality has been proven correct prior to vehicle use.
The use of the RRV under live OLE shall only be in accordance with the safe system of work for the possession, determined and approved by taking guidance from the requirements of GE/RT8000-HB16, and account taken of:
 - A minimum OLE wire height of 4.165m.
 - The earth bonds on the RRV shall have been examined for security and presence, prior to use.
 - Attachments and their load shall not exceed the height of the top of the boom.
15. Except for the cab, when the RRV is under live OLE access is NOT permitted onto any surfaces greater than 1.4m above rail.
16. The RCI shall be switched on at all times. Unless in digging mode.
17. It is not permitted to tow and/or propel other rail vehicles.

Supplementary Information - (Optional – minimum requirements where applicable)

1. The RRV is a Komatsu rail-conversion of road excavator with 1.965m boom, 3.23m artic and 2.1m dipper.
2. Serial No. 6109 Fleet No. 1114-05
3. Permitted number of personnel to be carried: 1 in cab.
4. It operates on rail in high-mode only. It has no load carrying area.
5. Gross weight is 16,000kg.
6. Maximum permitted speeds:
 - Maximum – 20mph (32km/h);
 - Working – 5mph (8km/h);
 - Switches, Crossings – 5mph (8km/h);
 - Raised Check Rails – 5mph (8km/h);
 - Emergency Recovery – 3mph (5km/h).
7. Where an attachment is known to have a significant adverse effect on the RRV stability, the RCI shall always be in 'Lift Mode' when using the attachment.
8. Load Lifting points:
 - Dipper pin 5T SWL;
9. It is fitted with a InTeEx RRCS Rated Capacity Indicator (RCI) / RCL incorporating a High Performance Movement Limiter:
 - Serial Number – 17011;
 - RCI Software I/D – 7.2.25-RRCS;
 - Duty Chart – Komatsu PC138 17011 for all lifting points;
 - The RCI has a tandem lifting mode.