



ENGINEERING ACCEPTANCE CERTIFICATE

This certificate issued in accordance with RIS-1530-PLT Issue 3.

NAME OF CERTIFICATION BODY

Atkins Rail

ACCREDITATION CODE

NS

Vehicle Class/Description Road Rail Vehicle Komatsu PC138 (Type, 9A)

Vehicle Owner W M Bradshaw

Issue Date 19th October 2012

Expiry Date 19th October 2019

Vehicle Numbers: 99709 911283-8

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;
None.

Scope of work for this certificate;
New RRV.
Compliance with RIS-1530-PLT, Issue 3, March 2011.



Deviations associated with this certificate ; None

Previous Engineering Acceptance certificate number: None

Previous Maintenance Certificate number: None

Maintenance plan Id.	Identification Number	Issue No.	Date
Maintenance plan title	RP043	05	10-12
	Operation & Maintenance Manual Komatsu PC138 Series Excavators		

Limitations of Use

1. It operates on-rail in high-mode only.
2. When travelling, the RRV vehicle is within W6 gauge and exception for tracks.
3. Vehicle shall only operate inside possessions.
4. Mirrors must be folded in for travelling.
5. The vehicle shall **NOT** on or off track or work, if adjacent lines are open to traffic.
6. The vehicle shall **NOT** on or off track, travel or work on live conductor rails.
7. It may on/off track at a level crossing or travel under live OLE in accordance with Method Statement and NR/L2/RMVP/0207 for the possession as determined and approved in accordance with the requirements of GE/RT8024, and provided the boom/dipper is secured in the stowed position.
8. Reverse movement in travelling mode must be controlled by ground staff.
9. For access/egress, the vehicle may only operate with the door to the cab adjacent to a cess or a line closed to all train movements or the Method Statement safe system of work must take account of adequate safe clearances to adjacent lines.
10. If adjacent lines are open to traffic, this vehicle shall only be used if a safe system of work has been adopted to take account of the extra gauge exceedance caused by attachments.
11. Limitation to ensure stability: See Duty Charts and LOLER Certificate. GKD Rated Capacity Indicator (RCI) shall be operative when the RRV is in use.
12. RRV shall only be operated with quick hitch in position or load on boom.
13. Movement of boom towards backward stability limit shall only be at moderate/low speed.
14. GKD Rated Capacity Indicator system (RCI) shall be in operation when RRV is working, except as in 14.1 & 14.2, Supplementary Information. Permitted to lift and carry in accordance with GKD Rated Capacity Indicator (RCI) system limits.
15. Maximum un-service braked load 16 tonnes.
16. Maximum Service braked load 30 tonnes.
17. Hydraulic supply pressure for trailer park brake release pressure is 30 bar minimum, 100 bar maximum.
18. Hydraulic supply pressure for trailer service brake release is 0 to 100 bar maximum.
19. Air supply pressure for trailer park brake release is 4 bar minimum to 6 bar maximum.
20. Air supply pressure for trailer service brake release is 0 to 6 bar maximum.

Supplementary Information

1. Manufacturer serial / chassis number; Conversion ref: RRC299, OEM Serial No: 26667.
2. Maximum travelling cant – 200mm
3. Maximum working cant – 150mm
4. Maximum on/off track cant – 100mm
5. Maximum on/off track gradient – 1:25
6. Maximum working track twist – 1/150 over the RRV wheelbase.
7. Maximum working gradient – 1 in 25
8. Maximum speeds (travel and working) on rail not to exceed:
 - 10 mph plain line
 - 5 mph switches and crossings

- 1 mph raised check/guard rails
3 mph emergency recovery
9. The vehicle is approved to carry 1 person seated in the driver's cab.
 10. Height of underside of rotating superstructure above rail level – 1220 mm.
 11. When working the counterweight infringes the W6a gauge by 290 mm. RIS-1530-PLT.
 12. Detail of boom/jib configuration:
 - 1.96m boom + 3.22m – 2.10m Dipper.
 13. The vehicle may work with a range of attachments through the dipper link pins or quick hitch.
 14. The range of attachments may be used with this machine in association with the RCI Duty Charts. Their use in modes 14.1 or 14.2 (below) shall comply with the following as applicable;
 - 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 safety and operating instructions, and the safe system of work for the possession.
 - Use of the attachment shall not involve exceeding the vehicle's rated capacity for lifting. Before switching **OFF** the RCI, the attachment and its contents (e.g. bucket full of ballast) shall be moved through the planned range of movements to confirm that the working mode is within the vehicles lifting and stability capacity.
 - Except for the quick hitch, the attachment should not be connected to the vehicle during on or off tracking, unless safe to do so.
 - The attachment shall be maintained in accordance with the manufacturer's and/or other approved instructions.
 - 14.1 The GKD Rated Capacity Indicator system (RCI) may be switched OFF when in a typically digging mode.
NOTE: Caution must be exercised with a typically digging mode attachment as its use may adversely affect the stability of the RRV when it is working.
 - 14.2 The GKD Rated Capacity Indicator system (RCI) shall be switched ON for lifting mode;
 - Lifting accessories (LOLER Regulations)
 - Any attachment that is mechanically fixed or and/or powered from the RRV.
 - Any such attachment and its use shall only be with the approval of the infrastructure controller. See RIS-1530-PLT Issue 3, clause 3.1.
 15. The additional Load lifting point located at dipper, rated capacity 7.5 tonnes SWL.
 16. RRV ON and OFF tracking and emergency recovery are detailed in RP043 the Operation & Maintenance Manual Komatsu PC138 Series Excavators.
 17. A RRAP or temporary crossing must be used, maximum track cant 100mm. Alternatively, a risk assessed documented procedure may be used that is specific to the possession.
 18. When working, the counterweight, boom, dipper and attachments can be out of gauge, dependant on the GKD Rated Capacity Indicator (RCI) slew settings in use.
 19. RCI information :
 - Manufacturer – GKD 3 series
 - Serial number – 598T
 - RCI Software I/D – 7.26
 - Duty chart reference, issue number and date – G11737/RRC299 - 18-Oct-2012 for all load lifting points.
 20. Minimum Curve Radius: 80m

Authorised By:



Name of Signatory: S P Rice

