

## ON-TRACK PLANT

### ENGINEERING CONFORMANCE CERTIFICATE

This certificate issued in accordance with RIS-1530-PLT Issue 6.

**NAME OF CERTIFICATION BODY**

**The Atkins Notified Body**

**ACCREDITATION CODE**

**NS**

**Machine Class/Description** Road Rail Machine Case 988 SP2S (Type 9B)

**Machine Owner** Shovlin Ltd

**Issue Date** 13 November 2017

**Expiry Date** 13 November 2024

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**Machine Number:** 99709 940506-7

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**First of Class** No

Certificate Number of First of Class NS/0162/17

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**Authorised by:**



Steve Rice  
Atkins OTP and OTM Signatory

**Official Stamp**

The Atkins Notified Body  
A UKAS Accredited  
Certification Body No:  
6162

#### Reason for Issue and Scope of Work

##### **Previous Certificate:**

Fitment of direct wheel disc braking system in accordance with Allan J Hargreaves General Arrangement drawings AJH/RWB/005 (floating axle) and AJH RWB/006 (fixed axle)  
Scrutiny of associated Maintenance documentation number AJH038 Issue 3

##### **Scope of work for this Certificate;**

Increase in on/off-tracking cant to 150mm.  
Installation of air brake system.  
Installation of GKD RCI System.  
Removal of Certificate of Authorisation of Variation, Tracker No 28555  
Upgrade to RIS-1530-PLT issue 6.

**Deviations Associated with this Certificate**

Reference           None  
 Title               None

**Previous Certificate Number:** RT/EA/0168/12

**Approved Maintenance Instructions**

| ID No.   | Title  | Issue No. | Date       |
|----------|--|-----------|------------|
| SPMM0001 | Case 988 Rail Mounted Excavator Operation and Maintenance Handbook | 4         | Sept 2017  |
| AJH080   | Hydrovane Compressor Maintenance                                   | 1         | 22/04/2014 |

**Machine Data**

|                                   |           |  |          |
|-----------------------------------|-----------|--|----------|
| <b>Gross Machine Weight</b>       | 22,210 Kg | <b>Gauge</b>                             | W6a      |
| <b>Tailswing gauge exceedance</b> | 580 mm    | <b>Max Hydraulic Park Brake Pressure</b> | 100 Bar  |
| <b>Tailswing height</b>           | 1430 mm   | <b>Hydraulic Service brake pressure</b>  | 0-60 Bar |
| <b>Maximum No. Trailers</b>       | 2         | <b>Max Air Park Brake pressure</b>       | 8 Bar    |
| <b>Maximum Towed Load</b>         | 46 tonnes | <b>Air Service brake pressure</b>        | 0-8 Bar  |

**Limitations of Use**

1. The machine shall only operate inside possessions.
2. The machine shall only be on/off-tracked at a RRAP or temporary crossing.
3. When travelling, mirrors shall be folded in.
4. When working, the counterweight, boom, dipper and attachments can be out of gauge. See Machine Data section of this ECC.
5. The machine is fitted with an electronic lateral movement limiting device. This system has NOT been approved as a High Performance Movement Limiting and is NOT permitted to operate under ALO configurations where a 'reliable' MLD is required
6. The machine shall **NOT** on/off-track, travel or work on live conductor-rail lines.
7. The machines is fitted with an electronic height limiting device. This system has NOT been approved as a High Performance Movement Limiting and is NOT permitted to operate under energised OLE.
8. For access/egress, the machine 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.
9. Movement of boom towards backward stability limit shall be at moderate/low speed.
10. Maximum towed load shall not exceed the maximum value given in the Machine Data section of this ECC.
11. Maximum permitted number of trailers for towing/propelling duties is two.

12. Auxiliary lifting point fitted on the dipper arm, SWL 10 Tonnes.
13. Attachment use shall only comply with the following:
  - Use of the attachment shall not exceed the machine's rated capacity for lifting.
  - The RCI shall be switched **ON** (Lifting Mode) for all lifting duties.
  - The RCI shall be switched **ON** (Lifting Mode) when using an attachment that may have a significant adverse effect on stability of the RRV.
  - The RCI shall be switched **ON** (Lifting Mode) when the attachment is powered by the RRV.
  - The RCI may only be switched to non-lifting mode when using attachments for operations other than lifting. Before turning the RCI to non-lift mode (dig mode), the attachment and its contents (e.g. bucket full of ballast if applicable) shall be moved through the planned range of movements with the RCI switched on, to confirm that the planned work is within the machines lifting capacity and stability.
  - Except for the quick hitch, the attachment shall not be connected to the machine during on or off tracking.
14. Reverse movements, the machine shall be controlled by ground staff
15. Machine shall be used as defined in the following table:

|   |        |                              |        |
|---|--------|------------------------------|--------|
| Maximum speed over plain line                           | 10 mph | Maximum working mode cant    | 150 mm |
| Maximum speed over S&C and raised check and guard rails | 5 mph  | Maximum traveling mode cant  | 200 mm |
| Maximum speed when towing/propelling                    | 10 mph | Maximum on/off-tracking cant | 150 mm |
| Minimum curve radius                                    | 80 m   | Maximum gradient             | 1:25   |

#### Supplementary Information

1. Machine is a rail-conversion of road multi-purpose excavator with 1.8m boom, 3.13m artic and 2.1m dipper arm.
2. It may work with a range of attachments through the dipper arm link pins or approved auxiliary lifting point.
3. Serial No. CGG0231308
4. Fleet No. Y472
5. RCI Information:
  - a. Make: GKD
  - b. Model: 3RCi
  - c. Software: 9.28
6. Duty chart reference Case 988 231308, 6 Nov 2017
7. Permitted number of personnel to be carried in cab:2

Authorised by:



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Atkins OTP and OTM Signatory