



ON-TRACK PLANT

ENGINEERING CONFORMANCE CERTIFICATE

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

NAME OF CERTIFICATION BODY

ACCREDITATION CODE

AEGIS Certification Services Ltd

AC

Machine Class/Description Doosan DX170 "Ultimate 270" (Type 9B)

Vehicle Owner William Bradshaw

Issue Date 24th August 2018

Expiry Date 24th August 2025

Vehicle Number: **99709 940738-6**

First of Class Yes

Certificate Number of First of Class AC/0117/18

Authorised by:



J P Court
AEGIS PAB Signatory

Official Stamp



Reason for Issue and Scope of Work

Previous Certificate:
Special Information 19 added.
Special Limitation 18 changed to reference Supplementary Information 19,
Expiry date conforms to the requirements of RIS-1530-PLT Issue 3, March 2011

This certificate:
Installation of GKD high performance Movement Limiting Device.
Upgrade to RIS-1530-PLT, Issue 6

Network Rail Asset Info. Copy

Certificate Number: AC/0117/18

Deviations Associated with this Certificate

Reference None
Title None

Previous Certificate Number: NS/5107/11

Approved Maintenance Instructions

ID No.	Title	Issue No.	Date
AJH131	Doosan DX170 Operation and Maintenance Instruction	1	03/08/18
AJH121	GKD Proportional Spaceguard Operation and Maintenance	4	22/08/18
AJH113	Equipotential Bonding	2	19/02/18
RP102	D170 Series Road/Rail Conversion of Doosan DX170 Wheeled Excavator	9	09/16

Machine Data

Gross Mass	30 630 kg		
Tailswing gauge exceedance	832 mm	Tailswing Height	1418 mm
Hydraulic park brake pressure	100 bar	Hydraulic service brake pressure	65 bar
Air service brake pressure	8.5 bar	Air park brake pressure	8.5 bar
Gauge	W6a	Software version (inc. RCI)	9.36

Approved Values

Main load lifting point SWL	14 000 kg	Auxiliary lifting point SWL	10 000 kg
Maximum towed load (hydraulic brakes)	49 000 kg	Maximum towed load (air brakes)	40 000 kg
Maximum number of trailers	2	Maximum number of people	2

Approved Track Conditions

	Travelling Mode	Working Mode	On/off-tracking
Maximum gradient	1:25	1:25	1:25
Maximum cant	200 mm	200 mm	150 mm
Minimum curve radius	80 m	80 m	

Approved Maximum Speeds

	Travelling Mode	Working Mode
Plain Line	15 mph	10 mph
Switches and Crossings	5 mph	5 mph
Raised Check Rails	1 mph	1 mph
Reverse	5 mph	5 mph
Towing	10 mph	10 mph

Limitations of Use

1. The machine shall not be used outside a possession.
2. The maximum number of people transported on this machine shall not exceed the value given in the Approved Values section of this ECC.
3. Lifts shall not exceed any SWL given in the Approved Values section of this ECC.
4. The maximum towed load shall not exceed the value given in the Approved Values section of this ECC.
5. The maximum number of trailers shall not exceed the number given in the Approved Values section of this ECC.
6. The machine shall not be used on track conditions in excess of those given in the Approved Track Conditions section of this ECC.
7. The machine speed shall not exceed the values given in the Approved Maximum Speeds section of this ECC.
8. Exceeds plant gauge in travelling mode. See Machine Data section of this ECC.
9. Mirrors shall be folded in during travel mode.
10. The machine exceeds the stated gauge in working mode, see Machine Data section of this ECC. The machine may be used with adjacent lines open to traffic only if a safe system of work to be adopted has taken account of gauge exceedance.
11. If adjacent lines are open to traffic, this machine shall be used only if a safe system of work has been adopted to take account of the extra gauge exceedance caused by attachments.
12. Ground staff shall control reverse movements.
13. The machine is to proceed at walking speed and ground staff control the movement in reverse until the superstructure can be slewed to face direction of travel.
14. The machine may only operate with the access adjacent to a cess or a line closed to all train movements or the documented safe system of work must take account of adequate safe clearances to adjacent lines
15. Not to be used ALO on LU
16. This machine is suitable for On/off-tracking, traveling and working under the live OLE when used in conjunction with a safe system of work.
17. The machine shall not be used in live conductor rail areas.



- 18. Where an attachment is known to have a significant adverse effect on stability the RCI shall always be in "Lift Mode" when using the attachment.
- 19. The machine shall not be used predominantly in enclosed locations.

Supplementary Information

- 1. This machine's re-approval for seven years was assessed against RIS-1530-PLT issue 6.
- 2. Duty chart reference: Doosan Ultimate 270, Serial Number RRC270, Date 24/08/18
- 3. The machine is fitted with a High Performance Movement Limiting Device.

Doosan Serial Number	5135
Plant Number	74

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J P Court
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