



## ON-TRACK PLANT

### ENGINEERING CONFORMANCE CERTIFICATE

This certificate is 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)

**Machine Owner** William Bradshaw

**Issue Date** 19th December 2019

**Expiry Date** 19th December 2026

**Machine Number:** **99709 940739-4**

**First of Class** No

**Certificate Number of First of Class** AC/0247/19

**Authorised by:**



Luigi D'Angelo  
AEGIS PAB Signatory

**Official Stamp**



#### **Reason for Issue and Scope of Work**

Previous Certificate:

Supplementary 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:

Upgrade to RIS-1530 issue 6.

Maximum on/off tracking upgrade to 150mm.

**Network Rail Asset Info. Copy**

**Certificate Number: AC/0245/19**

**Deviations Associated with this Certificate**

**Tracker Number**           None  
**Description**               None

**Previous Certificate Number: NS/5108/11**

**Approved User Documentation**

<b>ID No.</b>	<b>Title</b>	<b>Issue No.</b>	<b>Date</b>
AJH131	Doosan DX170 Operation and Maintenance Instruction	1	03/08/18
AJH121	GKD Proportional Spaceguard Operation and Maintenance	5	15/05/19
AJH113	Equipotential Bonding	2	19/02/18
RP102	D170 Series Road/Rail Conversion of Doosan DX170 Wheeled Excavator	9	09/16

**Machine Data**

<b>Gross Mass</b>	30730 kg		
<b>Tailswing gauge exceedance</b>	832 mm	<b>Tailswing Height</b>	1418 mm
<b>Hydraulic park brake pressure</b>	100 bar	<b>Hydraulic service brake pressure</b>	65 bar
<b>Air service brake pressure</b>	8.5 bar	<b>Air park brake pressure</b>	8.5 bar
<b>Gauge</b>	W6a	<b>Software version (inc. RCI)</b>	9.39

**Approved Values**

<b>Main load lifting point SWL</b>	14 000 kg	<b>Auxiliary lifting point SWL</b>	10 000 kg
<b>Maximum towed load (Hydraulic brakes)</b>	49 000 kg	<b>Maximum towed load (air brakes)</b>	40 000 kg
<b>Maximum number of trailers</b>	2	<b>Maximum number of people</b>	2

**Approved Track Conditions**

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

**Approved Maximum Speeds**

	<b>Travelling Mode</b>	<b>Working Mode</b>
<b>Plain Line</b>	15 mph	10 mph
<b>Switches and Crossings</b>	5 mph	5 mph
<b>Raised check and guard rails</b>	1 mph	1 mph
<b>Reverse</b>	5 mph	5 mph
<b>Towing</b>	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 5133, Date 11/12/19
- 3. The machine is fitted with a High Performance Movement Limiting Device.

Serial Number	EDWCEWACTA5005133
Plant Number	60

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**Authorised by:**

Luigi D'Angelo  
AEGIS PAB Signatory

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