

1.2004: Changes to Rail Plant numbering system

This briefing has been developed to ensure all customers of **International Rail Training & Consultancy Ltd. (IRTC)** understands the changes to the Rail Plant numbering system for RRVs including Planners, POS Reps, Engineers, MC/CCs and Machine Operators. It is also relevant to PC Reps or anyone carrying out Plant Monitoring. **Note:** the briefing of technological or system changes to all involved in POS, is

Explanation of the European Vehicle Numbering (EVN) System for RRVs

The EVN system is used throughout Europe and consists of a string of 12 numbers with the following an example which is for RRVs only:

99709_910135-1.

This is made up as follows:

99709: the UK's special number.

91: if the first 2 numbers is 91, 92 or 93, then this indicates a type 9a RRV (independent drive), 94, 95 or 96 a type 9b (friction drive) and if 96, 97 or 99, a type 9c (low ride)

0: this indicates a 360 degree excavator wheeled machine, a 1 = 360 degree excavator tracked, 2 = MEWP, 3 = dumper, 4 = dozer, 5 = tractor, 6 = van/land rover, 7 = open back lorry, 8 = box lorry and 9 = miscellaneous.

135: a number off a sequential register

-1: a check digit which is based on an algorithm to ensure the number is unique



RSSB		SNC-LAVALIN	
On-Track Plant Engineering Conformance Certificate This certificate is issued in accordance with RIS-1530-PLT Issue 6			
NAME OF VEHICLE ACCEPTANCE BODY SNC-Lavalin Rail & Transit Verification Limited		ACCREDITATION CODE 21	
Vehicle Class / Description	910/Rexquote/PW160-8/9A		
Vehicle Owner	Quattro Plant Ltd		
Issue Date	7 June, 2019		
Expiry Date	28 February, 2026		
Vehicle Number(s) 99709_910135-1			

Author: Andy Crago

Date: 11.07.24

Briefing No: 1. 2024

POS System



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Changes

In terms of RRVs in Europe, there is a fundamental difference to the UK, as they permit some RRVs to transit outside of a possession whereas in the UK they can **only** operate in a possession. The reason the RRVs can leave a possession is that they have an additional mode to work and travel called 'running mode' which means the RRV can operate/interact with the signalling system and therefore the signaller can see the position of the RRV on the applicable route.

Because of this running mode capability, they require an identifier in the EVN system whether the RRV can, or can't operate outside of a possession. The way this is achieved is a difference in the first two digits of the start of the 5 digits of the EVN (which is 12 digits in total). The engineering standard in the UK is RIS-1530-PLT and if built to issue 7 or later, (new machines) or upgraded/modified RRVs meeting this standard, then the 99 in 99709 will be changed to ZZ709 and the ZZ indicates the RRV does **not** have a running mode and therefore cannot go outside of the possession. Note: *There are no RRVs that can go outside a possession so this change is semantics to some degree and of course, those that meet the previous standard, remain at 99709 so a two tier system is now in place.*



ON-TRACK PLANT

ENGINEERING CONFORMANCE CERTIFICATE

This certificate is issued in accordance with RIS-1710-PLT Issue 2.1

NAME OF CERTIFICATION BODY	ACCREDITATION CODE
AEGIS Certification Services Ltd	AC

Machine Class/Description	Liebherr A900ZW/1033 (Type 9B)
Machine Owner	SG Elite Ltd
Issue Date	04 th July 2024
Expiry Date	04 th July 2031

Machine Number: ZZ709 940680-0

Here is an example of a newly upgraded Liebherr A900 cZW 360 Degree Excavator/Crane that meets the requirements of RIS1530-PLT issue 7.1 and you can see the ECC on the right which shows the EVN as ZZ709_940680-0 and the photo on the left shows the data panel with the number on too

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