UNITED KINGDOM DEFLECTOGRAPH ACCREDITATION TRIAL TEST REPORT

Report No: 0108/D962 JRU Issue 7

DEFLECTOGRAPH REGISTRATION NUMBER: D962 JRU TRL Reference No: 5

Operated by **WDM Ltd** of **Staple Hill House**
Staple Hill
Bristol

has participated in a United Kingdom Deflectograph Accreditation trial on **2 March 2016** at MIRA Proving Ground, Watling Street, Nuneaton, Warwickshire, CV10 0TU under the supervision of TRL.

The above machine has been tested against the accreditation requirements as provided in "Accreditation and Quality Assurance of Deflectograph Survey Devices" document[1] dated August 2014. Its performance in each test is summarised in the Annex to this test report.

This machine has met the mandatory criteria for carrying out surveys on the Highways England Strategic Road Network. Its performance in each test is summarised in the Annex to this test report.

This certificate superseeds any previous certificates issued by TRL.

Signed on 16 March 2016
for and on behalf of TRL Limited

Dr Alex Wright

Valid From:
2 March 2016

Date of expiry:
2 March 2017

[1]This document is available from TRL, please contact accreditation&QA@trl.co.uk for further details.

Test Report Annex

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The following parameters must be passed to successfully meet the requirements of the accreditation trial.

Tested Parameter	Performance
Axle Weight Limits:	
Front Axle (recommended weight 4275-4725kg):	**4805kg**
Nearside Rear Wheel (permitted weight 2857-3493kg):	**3320kg**
Offside Rear Wheel(permitted weight 2857-3493kg):	**3340kg**
Main Deflection Tests:	
Standard Deviation from the fleet mean.	**Pass**
*** Comments:**	
Outside of the recommended weight range for the Front Axle weight. Previous research has found no measurable effect of exceeding the front axle limits on deflection measurements and is therefore deemed acceptable.	

The following parameters were also tested. However, they are not currently a mandatory requirement of the accreditation trial.

Parameter	Performance
Temperature Measurement: The operator is required to measure the temperature of the pavement at a 40mm deep pre-drilled hole. Performance is assessed as follows: HIGH: 80% of measurements within 1°C of reference MEDIUM: 50% of measurements within 1°C of reference LOW: 15% of measurements within 1°C of reference Very Low: Otherwise	
Pavement Temperature Measurement	**High**
Comments:	
Distance Measurement: The machine is required to measure the length of a reference section of the pavement. Performance is assessed as follows: HIGH: 80% of measurements within 5m of reference MEDIUM: 80% of measurements within 7.5m of reference LOW: 80% of measurements within 10m of reference Very Low: Otherwise	
Distance Measurement	**High**
Comments:	