

UNITED KINGDOM
SIDEWAY-FORCE SKID RESISTANCE SURVEY DEVICES
ACCREDITATION TRIAL SUMMARY TEST CERTIFICATE

Report No: 0108SKID/S111 WDM Issue 12

REGISTRATION NUMBER: S111 WDM
TRIAL Reference No: 23

Operated by **WDM Ltd**
Of Staple Hill House, Staple Hill, Bristol

has participated in a United Kingdom Sideway-Force Coefficient Routine Investigation Machine Accreditation trial on **12 April 2022** at HORIBA-MIRA Proving Ground, Watling Street, Nuneaton, Warwickshire, CV10 0TU under the supervision of TRL.

The above machine has been tested against the criteria specified in Accreditation and Quality Assurance of Sideway-force Skid Resistance Survey Devices document¹ issue 4.1.

This machine has successfully met the mandatory criteria. Some Network Authorities may also require specific level of performance in some or all of the additional tests. The performance of this machine in each test is summarised in the Annex to this test certificate.

This certificate supersedes any previous certificates issued by TRL.

Signed on behalf of TRL Limited



Patrick Werro

Valid From: 14 April 2022
Date of expiry: 14 May 2023

¹ This document is available from TRL or from the following website
<https://ukrlg.ciht.org.uk/ukrlg-home/guidance/road-condition-information/data-collection/skid-resistance/>



Test Certificate Annex

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

Tested Parameter	Left wheel	Right wheel
Skid Resistance		
Between run standard deviation	Pass	No Data Supplied
Between equipment standard deviation	Pass	No Data Supplied
Distance measurement and Vehicle Speed		
Distance measured	Pass*	
Vehicle Speed	Pass	
Test wheel weight and water flow		
Test wheel weight	201.5	No Data Supplied
Water flow rate	Pass	No Data Supplied
Water flow direction	Pass	No Data Supplied
* Comments:		
The device did not meet the requirements for distance measured on the official test site (twin horizontal straights at MIRA). However, the measurements from the device were consistent between runs and it also exhibited a better performance on the other test sites. Therefore it is deemed that there is not a systematic issue with the system but that it was not correctly calibrated at the trials.		

The following parameters were also tested/reviewed. They are not currently mandatory requirements, however some Network Authorities may also require specific level of performance in some or all of these additional tests.

Tested Parameter	Performance
OSGR coordinate measurement	High
Altitude measurement	Medium
Data alignment performance	Satisfactory
.S10 file format	Satisfactory
.LOC file format	Satisfactory
.RCD file format	Satisfactory
.BCD file format	Satisfactory
Comments:	
OSGR assessed against OSGR fitted and Automatic markers criteria on two live test routes.	

