



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

F&M CO. LTD. PARTNERSHIP AND F&M PRIME CO. LTD. PARTNERSHIP

1150 N. Freedom Street

Ravenna, OH 44266

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MECHANICAL

Valid to: March 31, 2022

Certificate Number: 0363.04

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on tires:

**Test:**

**Test Method:**

Ford:

Belt Break-In

Measurement of Flat Track Belt Surface Friction

Rev. 4/14/05, Ford Motor Company

Standard Lateral Sweep

CETP 04.04-L407, Ford Motor Company

High Angle Lateral Sweep

CETP 04.04-L408, Ford Motor Company

Longitudinal Sweep

CETP 04.04-L409, Ford Motor Company

Combined Sweep

CETP 04.04-L410, Ford Motor Company

Static Torque

CETP 04.04-L412, Ford Motor Company

Variable Lateral Sweep

CETP 04.04-L415, Ford Motor Company

F&M:

RSAT Best Method

SAE J1988

Control Tire

SAE J1988

**F&M Equipment Capability**

**Operating Capabilities for End-Level, Steady State, and Dynamic Tests<sup>1</sup>:**

| Equipment Capabilities and Parameters | Capacity |                         | Control Accuracy |
|---------------------------------------|----------|-------------------------|------------------|
|                                       | Minimum  | Maximum                 |                  |
| Tire Inflation Pressure               | N/A      | 700 kPa                 | ± 5 kPa          |
| Roadway Speed                         | ± 5 km/h | ± 250 km/h              | ± 1 km/h         |
| Slip Angle Range                      | -30 °    | +30°                    | ± 0.01°          |
| Applied Normal Force                  | N/A      | 25,000 N                | ± 250 N*         |
| Spindle Drive Torque                  | 0 Nm     | ± 2000 Nm<br>At 900 RPM | ± 20 Nm          |
| Spindle Drive Speed                   | 0 RPM    | ± 1300 RPM              | ± 13 RPM         |
| Test Cell Temperature                 | 22 °C    | 26 °C                   | ± 2.0 °C         |

\* Note: The Fy Load Cell Capacity limits the Applied Normal Force at higher Slip Angles.

**Force and Moment Measurement Capabilities for End-Level, Steady State, and Dynamic Tests:**

| Measured Forces and Moments | Maximum Capacity | Control Accuracy         |
|-----------------------------|------------------|--------------------------|
| Fx – Longitudinal Force     | 10,000 N         | ± 1% of Full-Scale Range |
| Fy – Lateral Force          | 15,000 N         | ± 1% of Full-Scale Range |
| Fz – Normal Force           | 25,000 N         | ± 1% of Full-Scale Range |
| Mx – Overturning Moment     | 10,000 Nm        | ± 1% of Full-Scale Range |
| Mz – Aligning Torque        | 1,000 Nm         | ± 1% of Full-Scale Range |
| Ts – Spindle Torque         | 2,000 Nm         | ± 20 Nm                  |

**F&M PRIME Equipment Capability**

**Operating Capabilities for End-Level, Steady State, and Dynamic Tests<sup>1</sup>:**

| Equipment Capabilities and Parameters | Capacity |            | Control Accuracy |
|---------------------------------------|----------|------------|------------------|
|                                       | Minimum  | Maximum    |                  |
| Tire Inflation Pressure               | N/A      | 700 kPa    | ± 5 kPa          |
| Roadway Speed                         | ± 0 km/h | ± 319 km/h | ± 1 km/h         |
| Slip Angle Range                      | -28 °    | +28°       | ± 0.01°          |
| Applied Normal Force                  | 0 N      | 25, 000N   | ± 250 N*         |
| Spindle Drive Speed                   | 0 RPM    | ± 3000 RPM | ± 16 RPM         |
| Test Cell Temperature                 | 16 °C    | 26 °C      | ± 2.0 °C         |

\* Note: The Fy Load Cell Capacity limits the Applied Normal Force at higher Slip Angles.

**Force and Moment Measurement Capabilities for End-Level, Steady State, and Dynamic Tests:**

| Measured Forces and Moments | Maximum Capacity | Control Accuracy |
|-----------------------------|------------------|------------------|
| Fx – Longitudinal Force     | 20,000 N         | ± 150 N          |
| Fy – Lateral Force          | 20,000 N         | ± 150 N          |
| Fz – Normal Force           | 25,000 N         | ± 250 N          |
| Mx – Overturning Moment     | 6,000 Nm         | ± 75 Nm          |
| Mz – Aligning Torque        | 3,000 Nm         | ± 20 Nm          |
| Ts – Spindle Torque         | 6,000 Nm         | ± 45 Nm          |

<sup>1</sup>This laboratory also uses customer supplied specifications and/or methods directly related to the testing technologies and parameters listed above.





## *Accredited Laboratory*

A2LA has accredited

### **F&M CO. LTD. PARTNERSHIP AND F&M PRIME CO. LTD. PARTNERSHIP**

*Ravenna, OH*

for technical competence in the field of

## **Mechanical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 4<sup>th</sup> day of June 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0363.04  
Valid to March 31, 2022  
Revised November 16, 2020

*For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*