



**Laboratory
Accreditation
Bureau**

Certificate of Accreditation


ISO/IEC 17025:2005

Certificate Number L2163

**Clark Testing Services, LLC
821 E Front Street
Buchanan, MI 49107**

has met the requirements set forth in L-A-B's policies and procedures, and all requirements of ISO/IEC 17025:2005 "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 January 2009).

Accreditation valid through July 12, 2013



R. Douglas Leonard, Jr., Managing Director
Laboratory Accreditation Bureau
Presented the 12th of July 2010

*Laboratory Accreditation Bureau is found to be in compliance with ISO/IEC 17011:2004 and recognized by ILAC (International Laboratory Accreditation Cooperation) and NACLA (National Cooperation for Laboratory Accreditation).



Scope of Accreditation For Clark Testing Services, LLC

821 E. Front St
Buchanan, MI 49107
Rick Wesner, General Manager
269-697-8038

In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Clark Testing Services, LLC** to perform the following tests:

Accreditation granted through: **July 12, 2013**

Testing – Mechanical

Structures

| Technology | Range, when necessary | Methods Used | Product Types | Remarks |
|----------------------------|--|---|---|--|
| Tension and Compression | +/- 200 000 lb | Customer Specified | Automotive, Industrial, Off-Highway, Agricultural, Commercial | Proof / Ultimate Loads Fatigue Load vs. Deflection |
| Torsional Fatigue | +/- 100 000 lbf-ft | Customer Specified | Automotive, Industrial | |
| Seat / Seat Belt Anchorage | (0 to 6 000) lb | FMVSS 207 / 210 Customer Specified | Automotive Agricultural Industrial | |
| ROPS | Up to 200 000 lb | SAE J/ISO 3471 or Customer Specified | Off- Highway Agricultural | Ambient or 0° F |
| FOPS | Level I (1 365) J Level II (11 600) J | SAE J/ISO 3449 or Customer Specified | Industrial Mining | Ambient or 0° F |

Power Train

| Technology | Range, when necessary | Methods Used | Product Types | Remarks |
|---------------------------|---|--------------------|----------------------------|---|
| Drive | Fractional to 1500 hp (10 to 16 000) rpm | Customer Specified | Automotive Off-Highway | Temperatures (-65 to 250)° F |
| Absorption | Fractional to 3 000 hp | Customer Specified | Agricultural Commercial | |
| Fixed Chassis Dynamometer | (0 to 75) mph Up to 450 000 lb radial load | Customer Specified | Automotive Off-Highway | Various pull, speed and bump conditions |
| Portable Dynamometer | (0 to 120) mph | Customer Specified | Agricultural | |



Hydraulics

| Technology | Range, when necessary | Methods Used | Product Types | Remarks |
|--------------------------|------------------------------------|---|--|---|
| Static | (0 to 30 000) psi 1 cu. in. | SAE J 214 or Customer Specified | Automotive | Cylinder durability Temperatures, (-65 to 250)° F |
| Dynamic | (0 to 12 000) psi 12 cu. in. | SAE J 214, J 746 or Customer Specified | Automotive Industrial Agricultural | Pulse, Stroke, Performance, Motor Torque, Temperatures (-65 to 250)° F |
| Proof Test Burst Test | 300 gpm @ 3 000 psi | Customer Specified | Off-Highway | As specified for working limits. Product destructive limits |
| Pneumatics | (0 to 4 500) psi | Customer Specified | Automotive Industrial | Temperatures (-65 to 250)° F Performance, Proof, Durability, Burst; Valves, Cylinders, Reservoirs |
| Environmental | (-346 to 600)° F (15 to 95) %RH | Customer Specified | Automotive, Industrial, Off-Highway, Agricultural, Commercial | Portable Chambers and Refrigeration Units, Custom Enclosures |

Notes:

- 1) This laboratory offers commercial testing service at its own facilities.

Approved by: _____

R. Douglas Leonard
Chief Technical Officer

Date: June 9, 2010

Reissued: 6/9/10