



St. Lawrence-Troy, LLC

- ❖ Free Evaluation
- ❖ 13 Month In-Service Warranty

Design and Remanufacturing
of Servo Hydraulic Equipment

Test Lab Services

Servo Hydraulic Test Equipment Remanufacturing

Fatigue-Rated Servo Rotary and Linear Actuators, including:

- ❖ MTS
- ❖ Servotest
- ❖ Instron
- ❖ Pegasus/Schenk
- ❖ Shore Western
- ❖ Team



Remanufacturing Process

- ◆ Rebuilt to factory specifications
- ◆ Grind-chrome-grind piston rods
- ◆ Hone barrels
- ◆ Machine pistons to size and coat to manufacturer's specs as needed
- ◆ Inspect rod bearings; if necessary, replace with new
- ◆ Replace all seals
- ◆ Test to manufacturer's specs, including:
 - ◆ Cycle test at system pressure and measure leakage

Servo Valve Remanufacturing

Servo Valve Repair

- ◆ Moog servo valves are Moog factory rebuilt to current engineering standards
- ◆ Statically and dynamically tested
- ◆ 50 mA 760s now upgraded to **carbide ball**
- ◆ Moog and MTS (Moog) **2 year "Same as New" warranty**
- ◆ Vickers, Rexroth, Pegasus and all other manufacturers repaired



Test Lab Valve

Servo Valve Upgrades ⇨ *Trade-in discounts available! Contact us for details*

- ◆ Upgrade with rugged **Moog test lab-rated servo valves**
- ◆ Replace obsolete Pegasus, Moog, Ultra, and Atchley servo valves
- ◆ Replace lower performance off-brand Star, Rexroth and Vickers servo valves
- ◆ Replace Pegasus 3-stage valves with high performance **Moog 79 servo valves**
- ◆ **G761 50 mA test valves** now stocked in Troy (MTS equivalent)

Pump Remanufacturing

Remanufacture all makes/models, including:

- ❖ Rexroth
- ❖ Oilgear
- ❖ Parker
- ❖ Denison
- ❖ Vickers
- ❖ IMO

Remanufacturing Process

- ◆ Grind and lap or replace port plate
 - ◆ All wear surfaces reworked or replaced
 - ◆ Refinish all contacting surfaces
 - ◆ Grind-chrome-grind stroking piston
 - ◆ All bearings and seals replaced
 - ◆ Test to specs, including checking for case drain leakage
- (Note: Compensator response, leakage, etc. all verified at full operating pressure)



Test Lab Pump

32399 Milton, Madison Heights MI 48071 ♦ 248.585.7733 ♦ Fax 248.585.7979 ♦ www.st-lawrence.com

Contact St. Lawrence-Troy today! (800) 521-5772 ♦ dond@st-lawrence.com



Hydraulic Pump Rooms & Power Supplies



- ◆ St. Lawrence-Troy manufactures Fatigue Rated Servo-Hydraulic Power Supplies and Pump Rooms
- ◆ Specifically designed for test labs
- ◆ 5000 psi rated components
- ◆ High efficiency filtration and long life pump design combine to provide the most reliable hydraulic power unit design

Equipment to Improve Test Lab Reliability & Capacity

- ◆ Low micron final sandwich filters for single and dual **Moog 760 series servo valves**
- ◆ **Schroeder** high performance high dirt-holding replacement elements
- ◆ Off-line cooling/filtration loops - reduce ISO particle count
- ◆ Portable and in-line particle monitors - real time data
- ◆ Water sensors
- ◆ Oil analysis service - for both chemistry and ISO particle count
- ◆ Accumulators (reduce line shock) and pulse-tones (reduce pump noise)
- ◆ Central hydraulic systems - total system responsibility
- ◆ Stand-alone hydraulic systems
- ◆ Weldless plumbing systems designed and installed



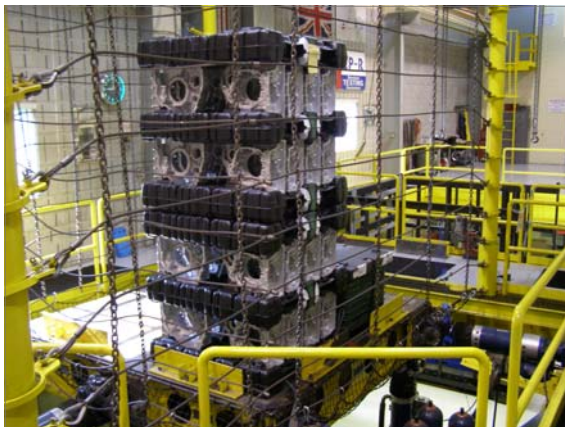
Hydraulic System Field Service

- ◆ On-site maintenance of servo hydraulic systems and components
 - ◆ Preventive maintenance programs (filters, accumulators, hoses, oil analysis, etc.)
 - ◆ Hydraulic hoses pre-flushed to ISO specification and proof-tested
 - ◆ Oil analysis
- ⇒ *Let us help you lower your ISO code with high efficiency glass media filter elements*

Transportation Simulation

Functional and Validation Testing Services

⇒ *Also available: High speed camera photography*



6-Axis 6,000 hp Transportation Simulator



Real World Rail Impact Tester

Full scale simulation of rail car coupling ("humping")

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