



INDUSTRIAL FLUID SYSTEMS

ACTS-14109 was designed to test aerospace gearboxes and other similar components at a precise pressures, temperatures, and flow rates. It includes a 3 micron inline filter extending test oil life by a factor of 50+.

System Specifications

- Test oil at 75-180F (+/-) 2 Deg
- Adjustable pressures from 15 to 300 PSI depending on the part.
- Adjustable flow rates (2.0 to 9.0 GPM) and flow meter with + or —0.5% accuracy
- Provide 20 gallon reservoir w/ 3 micron Inline filter
- (2) Millipore filters to collect flushing contamination of oil in and out of the part
- A clear hinged cover to protect the operator and environment from oil spray.
- Drip pan under the fixture and Millipore filters to contain oil.
- Portable and self contained test stand easily moved as required

Equipment Provided

- ACTS-14109 Gearbox Test Stand
 - 20 Gallon test oil reservoir
 - 10 GPM Lube filter/heater pump
 - 3kW Heater w/PID controller
 - 10 to 300 PSI range
 - 3 Micron inline filter
 - Duplex Millipore filters
 - 0.3 to 10.2 GPM flow meter
 - Control Panel w/ interface
 - Sample Ports
 - 0-500 PSI Pressure Gauge
- Digital displays Temp-PSI-Flow
- Operational & Maintenance Manual w/ Spare Parts List

This system is designed to meet test specifications for gear boxes and other aircraft parts that require pressures of 10 to 300 PSI (+- 2PSI), temperatures of ambient to 180F (+- 2 Deg F) , and flow rates of 0.30 to 10.2 GPM (+- 0.5%). Parts range in size from 8" x 8" x 6" to 14" wide 15" high and 33" long. (2) Millipore filters collect oil samples of oil going into and out of the part for analysis and quality records. A positive displacement flow meter with an accuracy of +/- 0.5% combined with a pressure transducer provides flow/pressure data.



Prior to testing, the manufacturer to establish the flow rate, temperature requirements and oil quality required to meet Rolls-Royce specifications.

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