



AW-LAKE
PROCESS FLOW MEASUREMENT



APPLICATION SPOTLIGHT: Truck Transmission Testing



Truck Transmission Testing



APPLICATION:

Weller Truck Parts is a leading manufacturer of new and remanufactured truck parts. Weller's Truck Allison Department remanufactures transmissions by completely disassembling, cleaning, rebuilding and stringently testing their products. In the final stage of testing, a 300HP dynamometer is used to measure the flow range of heated oil to accurately read the flow volume.

PRODUCTS SUPPLIED:

- Positive Displacement Flow Meter (JVM-80BBT)
- CAPM-15 High Temperature Sensor System

CHALLENGE:

Weller's previous flow monitoring system was no longer accurately reading the flow ranges of the heated oil in final testing of their products. A new flow measuring system needed to be installed to the dynamometer that could specialize in accurately reading the flow volume of the heated oil.

SOLUTION:

AW-Lake's positive displacement – JVM-80BBT flow meter provided the durability and accuracy needed to withstand the hot temperatures of the oil. A CAPM-15 High Temperature sensor system

with its signal amplifier module and the CP-30 high temperature carrier frequency sensor was installed to the JVM-80BBT along with properly fitted flanges and clamp fittings. The CAPM-15 can withstand medium temperatures of up to 400 degrees Fahrenheit making it an ideal sensor system for the extreme temperature of the oil.

RESULT:

AW-Lake's sales team worked closely with Weller to create a solution and flow monitoring system tailored to their rigorous testing requirements. The JVM-80BBT and CAPM-15 High Temp. measuring system were installed with minimal effort and electrical changes to their current cabling. This flow meter and sensor package has since improved test accuracy and given Weller the ability to adjust their pass/fail parameters on their product testing, allowing them to identify issues before shipping to customers. This has also helped reduce product warranty returns as well as troubleshoot potential issues more accurately.

