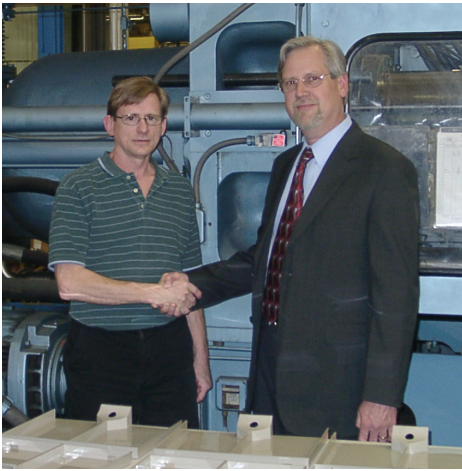


Sajar Plastics test site returns positive results for new Demag 'Ultra Life' fluid



Demag's Bill Sifritt (right) thanks Sajar Plastics' Molding Manager Bill Ludwig for his company's assistance in testing the new Demag Ultra Life™ machine fluid on a 1989 500 HP.

The proof positive for the results of Demag Plastics Group's in-house machine fluid are in the pictures as well as the numbers.

Sajar Plastics, Middlefield, Ohio, was the site for a four-month test of the new Demag Ultra Life™ fluid.

"We had hoped the new fluid would improve the performance of the machine, and our expectations were met," said Bill Ludwig, molding manager for Sajar Plastics.

"The new Demag Ultra Life™ fluid had a cleaning effect without robbing the machine of any performance. The cleaned components look like they had just been polished."

The tests showed several positive results, including elimination of silicone contamination, and reduced oxidation, nitration and acidity. (See table and photographs for details.)

Before developing its new, proprietary machine fluid option, Demag only recommended certain fluid brands for use on its machine. Demag's Manager of Technical Service and Retrofit Bill Sifritt and Technical Service Coordinator Chris Jaworski managed the test.

"The main benefit of new Demag Ultra Life™ fluid is the cleaning action, which is shown by the photos, and the fact that this fluid can last three times longer than other machine fluids. Combine that with the superior wear protection of this fluid and less unplanned machine down time, the return on investment speaks for itself," Sifritt said.

Sifritt said the Demag Ultra Life™ fluid also has a 10 percent higher flashpoint (450°F) than other hydraulic machine fluids. This could help reduce insurance rates, depending on the molder's provider.

One surprising result from the test was the reduction of machine noise, according to Sajar Plastics. Demag plans to conduct additional

machine tests to try to quantify the noise reduction, along with the possibility of reduced cycle times and enhanced machine performance.

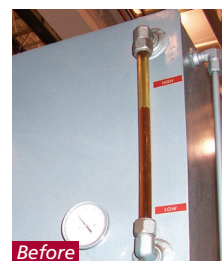
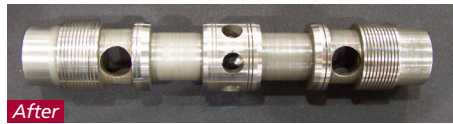
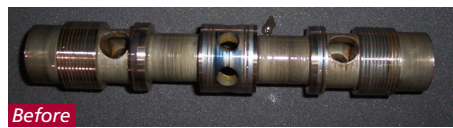
The test was conducted on a 1989 500 HP machine, Nov. 12, 2004, through March 11, 2005. The last time the machine had its oil changed was 1995. At the start, the machine's existing oil was drained, and replaced with the Demag Ultra Life™ fluid. All oil filters and suction strainers were replaced, and the breathers were cleaned.

Demag photographed the oil tank sight gauge, ejector spool, pump check valve and the

clamp open valve before and after the Demag Ultra Life™ fluid was added, then at the end of the four month test period.

Finally, Demag gathered monthly oil samples for testing.

For more information on the new Demag Ultra Life™ fluid as well as AW 68 machine fluid, contact Demag's Parts Department toll-free at 866.491.1045 and select option 1. The fluid also can be ordered along with various levels of Service Programs by calling the same toll-free number, and selecting option 2 for the Retrofit Department for a quote.



Demag's new Ultra Life™ machine fluid had a "cleaning" effect on Sajar Plastics 500 HP machine as demonstrated by the before and after images (left, top to bottom) of the ejector spool, pump check and the clamp open cartridge.

Above, before and after views of the oil gauge.

The chart and graph below, examples of the fluid analysis users of Demag Ultra Life™ fluid will see, show that the new machine fluid kept contaminants low throughout the four-month study, starting with the first test Dec.10.

Sample Information						
Sample Date	11/12/2004	12/10/2004	1/14/2005	2/11/2005	3/11/2005	5/6/2005
Meter Reading	0	0	0	0	0	0
Oil Changed	Yes	No	No	No	No	No
Hours on Oil	0	0	0	0	0	0
Oil Added	0	0	0	0	0	0
Wear Metals						
Aluminum (ppm)	0	0	0	0	0	0
Chromium (ppm)	0	0	0	0	0	0
Copper (ppm)	99	20	14	17	20	19
Iron (ppm)	17	4	2	3	3	5
Lead (ppm)	0	0	0	0	0	0
Tin (ppm)	0	0	0	1	0	0

