

FLUID PERFORMANCE TEST

Fluid Test Report No.: FT-0052

Lubricant Name: AMLUBE 925

Manufacturer: AML Industries, Inc.

Customer: Meadville Forge

Application: Forging Press Die Lube

Contact Name: Mike Stelbotsky (Airline)

Contact Phone: (814) 825-2716

Date: 8/11/2004

Test Date: 8/2/04-8/9/04

Nozzle used: TFN-IL-NC-120-3 / SFN-IL-NC-120-3

Item #: 570-85991-0003 /570-85965-0003

Injector size: 1/2 Drop
 1 Drop
 2 Drops

Injector configuration:
Cycle Time: .6 Sec.
Dwell Time: 0.3
Delay Time: 0.3

Tubing Length (Ft.): 3 ft. Nylon

Regulator Pressure (PSI): 5-20 Psig.

Test Temperature
Ambient
Heated

Temperature (deg. F): _____

Test Objective: To determine spray pattern, coverage & feasibility with the ORSCO spray system.

Nozzle Gap Size (In.): 0.008

Nozzle Orifice Size (In.): NA

Spray Distance (In.): 2 inch

Spray Width Achieved: 2 & 3

Spray Quality	<u>None</u>	<u>Low</u>	<u>Medium</u>	<u>High</u>
Pulse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spits	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splatters	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Atomizes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overspray	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TEST NOTES

Two (2) types of nozzle assemblies were used to perform this fluid test: (1) TFN style, and (2) SFN swivel fan style. these nozzle assy. were attached to fixtures with spray recovery orifices on the bottom, returning sprayed fluid to one common reservoir. A special timing configuration was used to best simulate customers forging operation. (3 second on time 1.5 second off time) The first five days of the test all functions of the ORSCO system with this fluid appeared to be normal, (nozzle spray pattern good) upon return to work on Monday (8/9) more fluid was required (Requested earlier in the week) so the system was not run, on Tuesday (8/10) more fluid was received . Additional fluid was added to reservoir noting a buildup of graphite at bottom of reservoir. System was cycled and nozzle spray outputs were clogged resulting in fluid being forced into air line increasing nozzle air pressure did not help, nozzle tips still remained clogged. A complete nozzle assy. Replacement was done & system functioned again.

Tested By: Steve Gorski

Sales: _____
Engineering: Steven E. Gorski