

FLUID PERFORMANCE TEST

Fluid Test Report No.: FT-0038

Lubricant Name: 500F LQ Machine & Chain Oil

Manufacturer: Kem-A-Trix Lubricants

Customer: Dean Industrial

Application: CHAIN

Contact Name: Steve Sigle

Contact Phone: (559)-233-7633

Date: 1/26/2004

Test Date: 1/19/2004

Nozzle used: RMN-IL-NC-00

Item #: 570-85949-0000

Injector size: 1/2 Drop
 1 Drop
 2 Drops

Injector configuration:
Cycle Time: Varied
Dwell Time: Varied
Delay Time: Varied

Tubing Length (Ft.): 2-FT NYLON

Regulator Pressure (PSI): 4-12 psi

Test Temperature
Ambient
Heated

Temperature (deg. F): _____

Test Objective: To determine spray pattern & coverage

Nozzle Gap Size (In.): N/A

Nozzle Orifice Size (In.): 0.046

Spray Distance (In.): 3/4"-1-1/2"

Spray Width Achieved: 3/16"-1/4"

Spray Quality

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

TEST NOTES

Per the customer's request, 2 feet of 1/4"-diameter nylon tubing was connected to a remote nozzle tip. Also at the customer's request, our standard 3/16"-diameter oil feed line, that connects the injector to the nozzle, was replaced with 1/4"-diameter nylon tubing. The particular lubricant used in this application was quite viscous and required approximately 5 separate bleed procedures to evacuate all air trapped in the system and achieve a solid column of fluid. Best spray results were seen at 3/4" away from the surface being sprayed, with an overall cycle time of .5 seconds (which is uncommonly fast and could result in premature wearing of the seals). Thus, a 2 drop injector was substituted, successfully reducing the overall cycle time to 1.5 seconds, while maintaining the above described spray quality. It should be pointed out that 11 PSIG performed best given the above-described parameters.

Note: the Second sample submitted for testing was too thick to bleed thru the ORSCO System (FHT-800)

Tested By: Mark Aupperle

Sales: _____

Engineering: Steve Gorski