

FLUID PERFORMANCE TEST

Fluid Test Report No.: FT-0009

Lubricant Name: CORN OIL

Manufacturer: _____

Customer: General Mills

Application: FLAKE ROLLS

Contact Name: Jim Heckendorf

Contact Phone: 630-232-6164

Date: 2/28/2003

Test Date: 2/24/03-2/28/03

Nozzle used: 1" Dia. 120 Deg. Fan Spray

Item #: 570-89811

Injector size: 1/2 Drop
 1 Drop
 (Two) 2 Drop

Injector configuration:
Cycle Time: 1.0 sec.
Dwell Time: 0.5 sec.
Delay Time: 0.5 sec.

Tubing Length (Ft.): 3-FT

Regulator Pressure (PSI): 3 Psig.

Test Temperature
Ambient
Heated

Temperature (deg. F): Ambient

Test Objective: To determine Maximum spray pattern & coverage at different distances.

Nozzle Gap Size (In.): 0.007

Nozzle Orifice Size (In.): _____

Spray Distance (In.): 6"-10"

Spray Width Achieved: Varied

Spray Quality

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

TEST NOTES

Two Double drop inj.outputs were tied together for a total of 4 drops of oil per injection cycle this gave best coverage results.
Spray pattern seemed to sufficiently cover 10" of surface @ 8" away @ 6" away 8" of coverage was achieved,
very low Nozzle air pressure was required (3 Psi seemed optimum) to minimize Atomizing, Surface coverage was light to medium,
this could be varied by reducing or increasing overall cycle time. Further testing with Varied Nozzle gaps will be
performed in hopes of lowering some spray Quality's to Medium or Low .
In conclusion the ORSCO Spray System functioned properly over a five day test.(no clogging of Nozzle or Injector) The biggest concern
at this point are the three High Spray Quality's (see above).

Tested By: Mark Aupperle

Sales: _____

Engineering: Steve Gorski