

**FLUID PERFORMANCE TEST**

Fluid Test Report No.: FT-0034

Lubricant Name: Petroglide 68, 100, 150

Manufacturer: Petro-Canada

Customer: Hydrotech/Firestone

Application: Oven Chain

Contact Name: Randy Delk

Contact Phone: \_\_\_\_\_

Date: 11/21/2003

Test Date: 12/12/2003

Nozzle used: SWN-IL-NC-00-1

Item #: \_\_\_\_\_

Injector size:            1/2 Drop   
                                  1 Drop   
                                  2 Drops

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

Tubing Length (Ft.): 2 FT-Nylon

Regulator Pressure (PSI): 10 psig.

Test Temperature  
Ambient   
Heated

Temperature (deg. F): \_\_\_\_\_

Test Objective: Improve spray pattern

Nozzle Gap Size (In.): NA

Nozzle Orifice Size (In.): 0.046 - 0.125

Spray Distance (In.): 1/2"

Spray Width Achieved: 1/4"

	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Splatters	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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**

Lubricant to be tested has tacifiers, causing extreme spitting and spattering using an .046 orifice. Orifice size increased to .109 with little to no improvement. This is standard drilling within SWT style tips. Air pressures were varied between 5 and 15 for all sizes with no major effect on spray pattern. Nozzle tip modified to have a 0.125 orifice. Air pressure increased to 10 psig. Resultant spray pattern was continuous with minimal spitting and spattering.

Tested By: Steve Gorski

Sales: \_\_\_\_\_

Engineering: Steve Gorski