Husky Oil Testing

- Husky Oil™* Independent Laboratory Test on the load bearing capacity of engine oil with and without the *IXL Anti-Friction Metal Conditioner*™
  - Timken Bearing Direct Load Friction Test. This is a standardized test that measures the amount of pressure (in grams) that a lubricant can successfully bear before the lubricant fails, and the motor stalls when the metal surfaces weld together. The test also measures the wear scar (in millimeters) on the metal surface, to see how well the lubricant protects the surface against friction-related wear.
  - This test uses SAE approved Falex Test Rings and Test Rolls to measure the lubricant's performance (in terms of load bearing capacity and wear scar)

*"Husky Oil," and its symbol are property of Husky Energy. These items are used in this presentation only to establish the laboratory that provided the testing indicated, and no other usage of these symbols—including product endorsement—is intended or implied.

Husky Oil is a division of Husky Energy, one of Canada's largest energy companies with a very reputable analytical laboratory.

A scanned copy of the actual lab report.

Notice that the motor in the control sample (without IXL) stalled out at 4227 and 5720 grams of load weight because the lubricant could not handle the higher pressure.

The wear scars on the control sample were on average 5.25 mm long and 3.0 mm wide.

Husky Oil

Analytical Services Laboratory

Table 1 - Analysis of IXL Anti-Friction Chemical

Sample	**Run #1**	**Run #2**	**Average**
Control Mobil Oil 10W-30			
Load Weight	4227 g	5720g	4974g
Motor Stall	Yes	Yes	Yes
Scar Readings			
Length	5.0 mm	5.5 mm	5.25 mm
Width	3.0 mm	3.0 mm	3.0 mm
Mobil Oil 10W-30 with IXL 6 Wt. %	**Run #1**	**Run #2**	**Average**
Load Weight	6693 g	Not Done	6693 g
Motor Stall	No		No
Scar Readings			
Length	3.0 mm		3.0 mm
Width	2.0 mm		2.0 mm
	Run #3 (Heavy Loading)	**Run #4 (Heavy Loading)**	**Average**
Load Weight	12,425 g	12,425 g	12,425 g
Motor Stall	No (10 amp)	No (10 amp)	No (10 amp)
Scar Readings			
Length	4.0 mm	4.0 mm	4.0 mm
Width	3.0 mm	3.0 mm	3.0 mm

The same motor oil was then fortified with *IXL Anti-Friction Metal Conditioner™*.

Higher load weights were used, but even with up 12,425 grams of weight (more than double the control sample weight) the motor did *not* stall.

Also, note that the wear scar was much smaller with IXL in the oil, even with higher load weight.

IXL reduces heat and friction, which means less wear and tear on your engine.

Husky Oil Conclusions

- After analyzing the test data from the previous slide, Husky Oil’s Analytical Laboratory reported:

- “The IXL Anti-Friction chemical was shown to increase the load bearing capacity of the engine oil significantly.”

- “In conclusion, the IXL Anti-Friction chemical has been shown to increase the load bearing capacity of the engine oil as compared to the engine oil without the additive.”