



HEATTRANSFER

Customer: PTRHTF10085	System Information	Sample Information
LAKESIDE INDUSTRIES 2001 N.E. JOHNSON ROAD CENTRALIA, WA 98531 US Attn: JIM SCHNEIDER Tel: (360)508-3938 E-Mail: jim.schneider@lakesideind.com	System Volume: 0 gal Bulk Operating Temp: 325F / 163C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HYWAX HEATER	Lab No: 02332798 Analyst: Ron LeBlanc Sample Date: 11/15/19 Received Date: 01/20/20 Completed: 01/23/20 Ron LeBlanc Ronald.LeBlancSr@HFSinclair.com

Recommendation:

Comments: The sample shows a decrease in viscosity. The Flash point is marginally low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low. The possibility of a poor sample taken could have these results. Adding fresh oil could help regain oil typicals. Be sure to purge a good amount of oil before drawing sample. Re-sample to confirm oil condition. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low. COC Flash Point is marginally low.

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/15/19	01/20/20	3.0y	FILTER	356 / 180	77.1	28.2	0.254	0.135	653 / 345	800 / 427	894 / 479	8.28
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



