

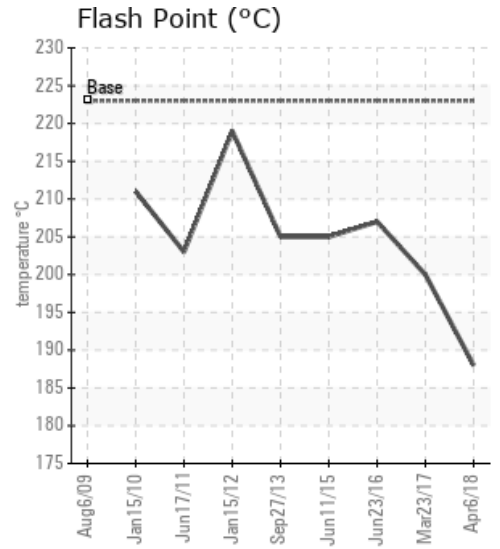
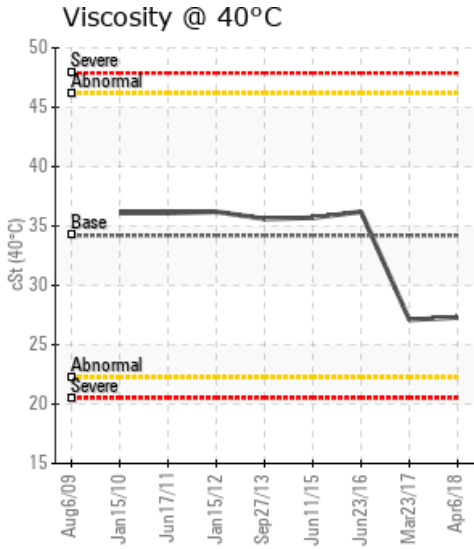
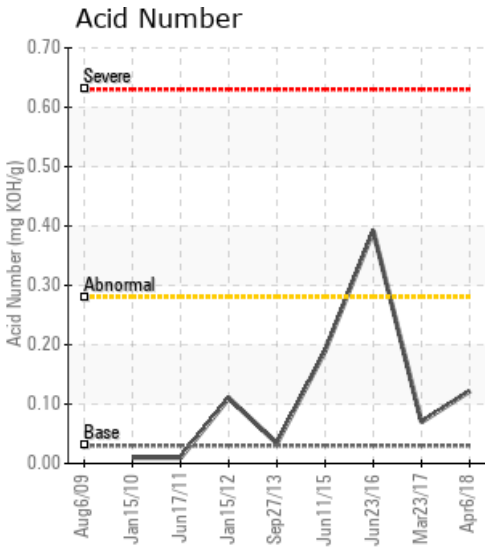
ASPHALT PLANT

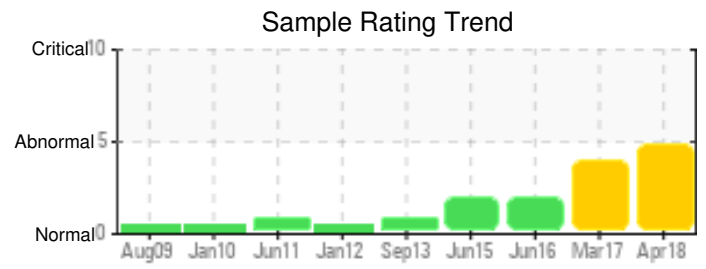
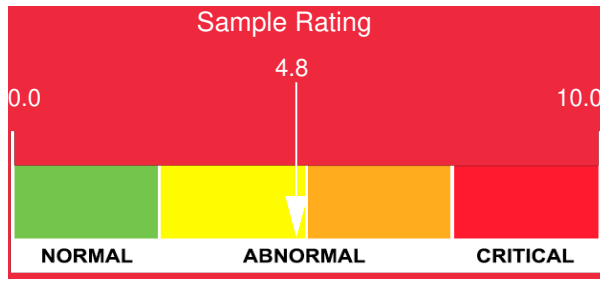
Customer: PTRHTF10085	System Information	Sample Information
LAKESIDE INDUSTRIES 2001 N.E. JOHNSON ROAD CENTRALIA, WA 98531 US Attn: JIM SCHNEIDER Tel: (360)508-3938 E-Mail: jim.schneider@lakesideind.com	System Volume: 500 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: GENCOR	Lab No: 02211017 Analyst: Ron LeBlanc Sample Date: 04/06/18 Received Date: 04/19/18 Completed: 04/20/18 Ron LeBlanc Ronald.LeBlancSr@HFSinclair.com

Recommendation: Flash point is becoming lower over past samples. The point at which the sample was taken can effect the quality of the sample. The amount of oil purged before sample was captured can effect the sample. Take another sample after a good amount of oil is purged. Also, the flash point can be raised by adding new oil and re-sample.

Comments: (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is marginally high. 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	%
04/06/18	04/19/18	1.5y		370 / 188	6.7	27.3	0.122	0.053	627 / 330	803 / 429	900 / 482	10.08
03/23/17	04/04/17	2.0y	FILTER HOUSING VENT	392 / 200	99.7	27.1	0.07	0.100	623 / 328	803 / 429	901 / 483	10.38
06/23/16	07/11/16	8.0y		405 / 207	51.8	36.2	0.392	0.225	698 / 370	807 / 431	932 / 500	2.43
06/11/15	07/02/15	7.0y	RETURN LINE B4 FLTR	401 / 205	16.8	35.7	0.19	0.122	698 / 370	815 / 435	920 / 493	3.12
09/27/13	10/17/13	0.0y	RETURN LINE B4 FILTR	401 / 205	5.4	35.6	0.034	0.232	695 / 368	808 / 431	917 / 492	3.53
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00

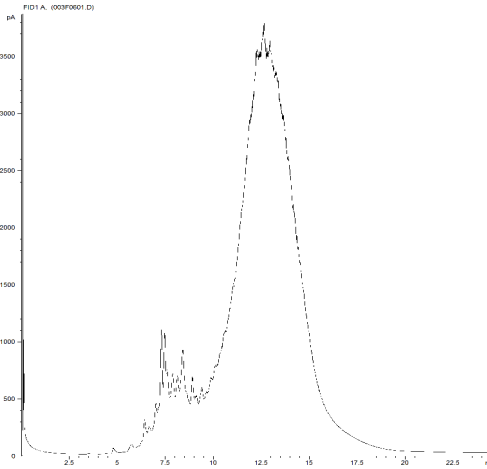




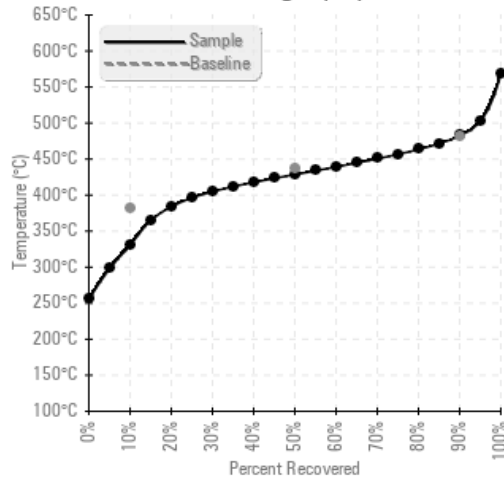
Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
04/06/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/23/17	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/23/16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/11/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/27/13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

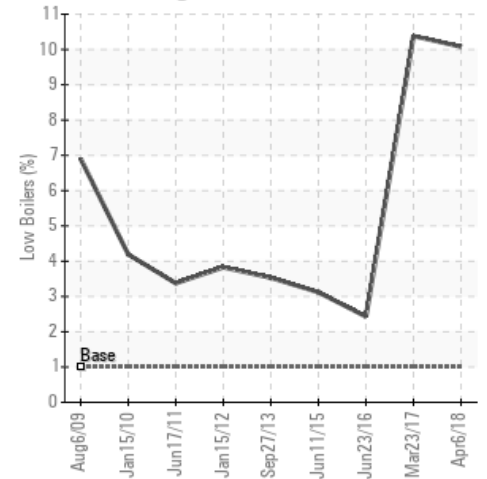
GCD Spectrum



Gas Chromatography Distillation



% Boiling < 335°C



Historical Comments

03/23/17	Water increased from last sample(almost doubled. Sulfur elevated more than 3x's. (GCD) 10% Distillation Point is severely low. Make sure the sample point is purged well before drawing sample. Resample in 1 month to evaluate changes. (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is marginally high.
06/23/16	TAN, Viscosity and (GCD) 90% Distillation Point is abnormally high. Resample in 2 months. Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is abnormally high.
06/11/15	Sample appears normal. (GCD) 90% Distillation Point is marginally high.
09/27/13	The oil appears to be suitable for further use. No indications of anything wrong happening at this time. yearly sampling is suggested. (GCD) 90% Distillation Point is abnormally high.

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