

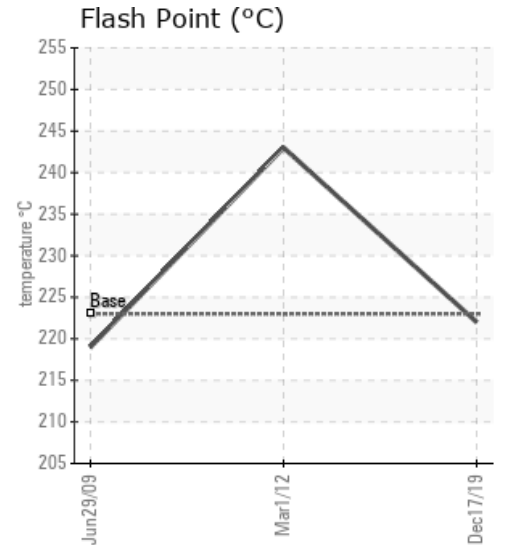
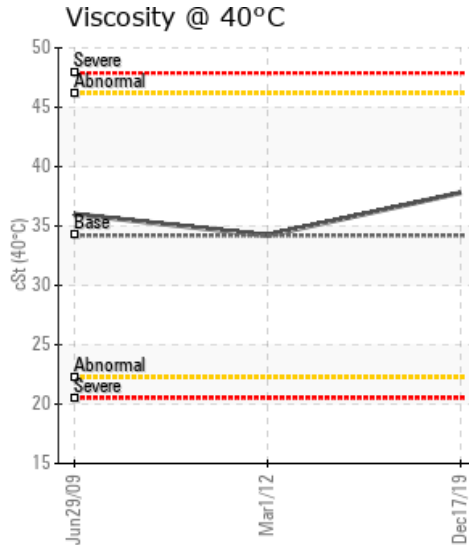
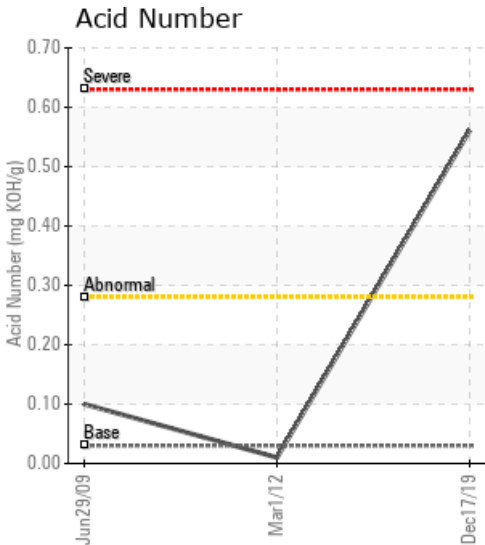
HEAT TRANSFER SYSTEM

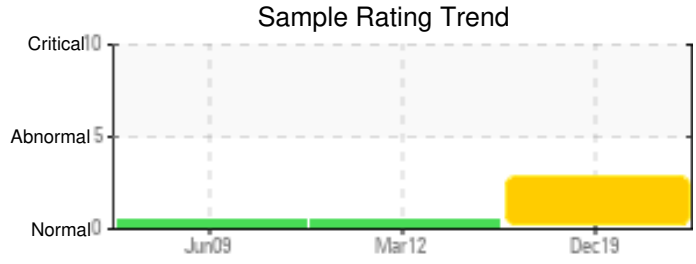
Customer: PTRHTF10020	System Information	Sample Information
LAKESIDE INDUSTRIES 18808 S.E. 257TH STREET COVINGTON, WA 98042 US Attn: Jack Mendoza Tel: E-Mail: jack.mendoza@lakesideindustries.com	System Volume: 0 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: GENCOR	Lab No: 02332799 Analyst: Ron LeBlanc Sample Date: 12/17/19 Received Date: 01/20/20 Completed: 01/23/20 Ron LeBlanc Ronald.LeBlancSr@HFSinclair.com

Recommendation: Acid Number is significantly increased from previous sample. Pentane insolubles are severely high indicating contamination. Take another sample and purge a good amount of oil before capturing in sample container.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high.

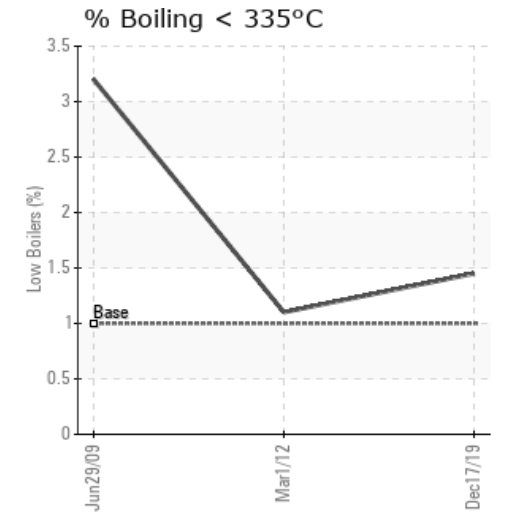
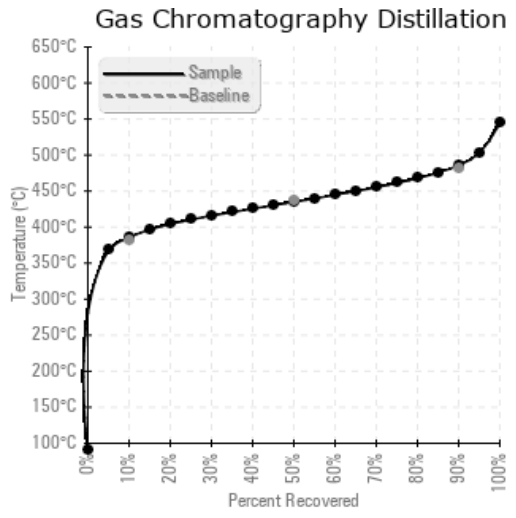
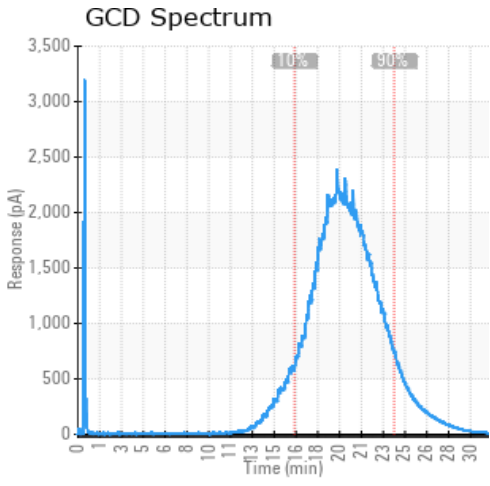
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/17/19	01/20/20	2.5y	NEAR AK PUMP	432 / 222	36.8	37.8	0.561	0.642	726 / 386	815 / 435	906 / 486	1.45
03/01/12	03/09/12	4.0y	UNDER HOT OIL PUMP L	469 / 243	209	34.2	0.01	0.056	717 / 381	806 / 430	899 / 481	1.101
06/29/09	06/29/09			426 / 219	141	36	0.1		691 / 366		900 / 482	3.2
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	
12/17/19	16	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1
03/01/12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	2	
06/29/09	0	0	0	1	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%]



Historical Comments

03/01/12	The oil appears to be in great condition at this time, which is expected if it's only 4 months old as indicated on the report. Please keep up the sampling frequency to once or twice per year so trendable data can be gathered.
06/29/09	

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.