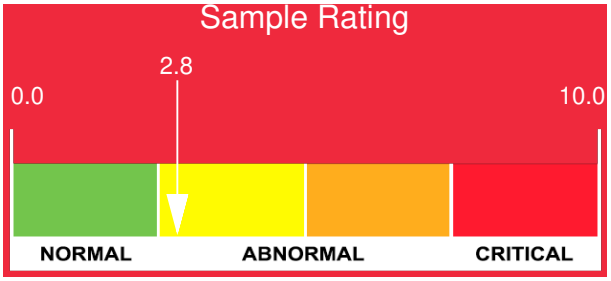
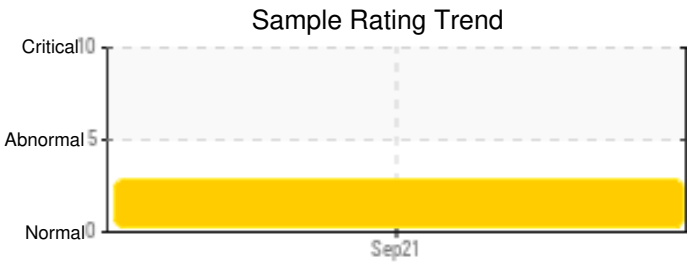




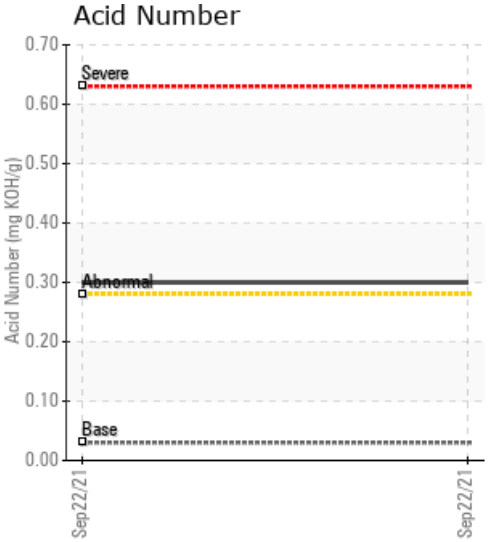
MONROE

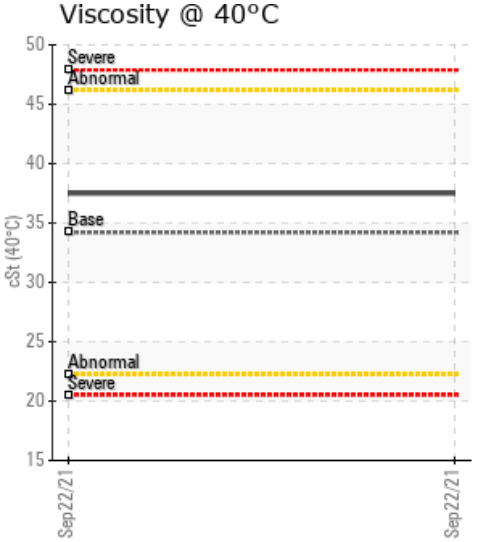
Customer: PTRHTF10044	System Information	Sample Information
LAKESIDE INDUSTRIES 14282 GALAXY WAY MONROE, WA 98272 US Attn: GARY SWANSON Tel: (360)794-3324 E-Mail: gary.swanson@lakesideind.com	System Volume: 250 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HY-WAY GENCO	Lab No: 02448268 Analyst: Ron LeBlanc Sample Date: 09/22/21 Received Date: 10/05/21 Completed: 10/13/21 Ron LeBlanc Ronald.LeBlancSr@HFSinclair.com

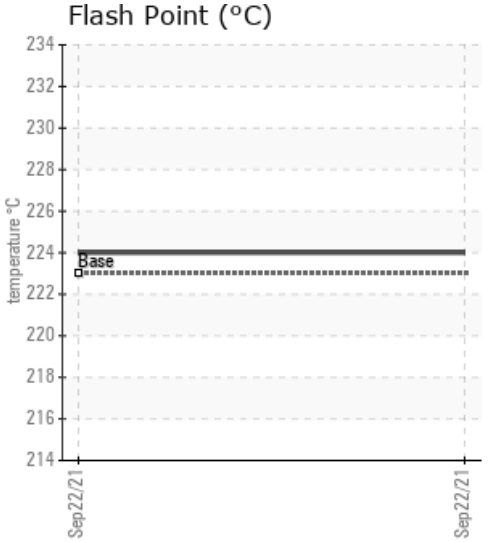
Recommendation: Acid Number (AN) is elevated. Pentane insolubles tend to indicate sludge deposits. If system has strainer/filter check for sludge. Adding a small amount of new oil might bring AN back to acceptable level.

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	%
09/22/21	10/05/21	18.0m	RETURN TO FILTER	435 / 224	49.2	37.5	0.30	0.683	728 / 387	815 / 435	908 / 486	0.40
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00







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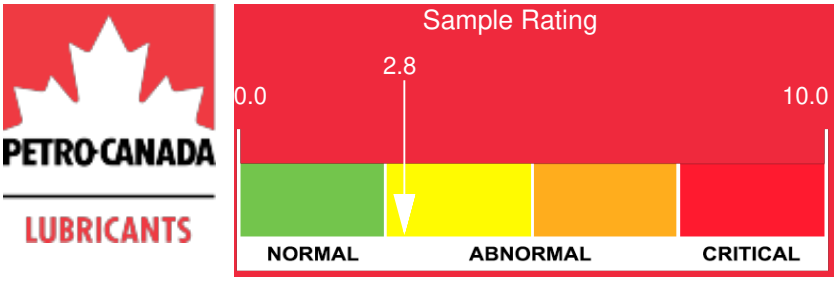
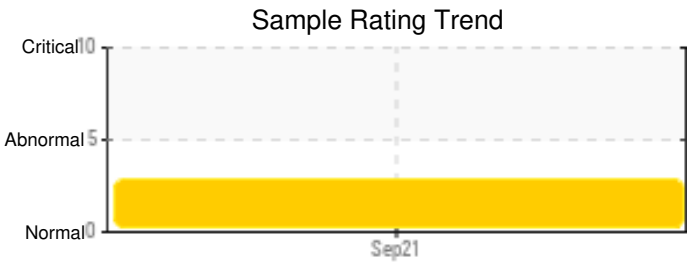
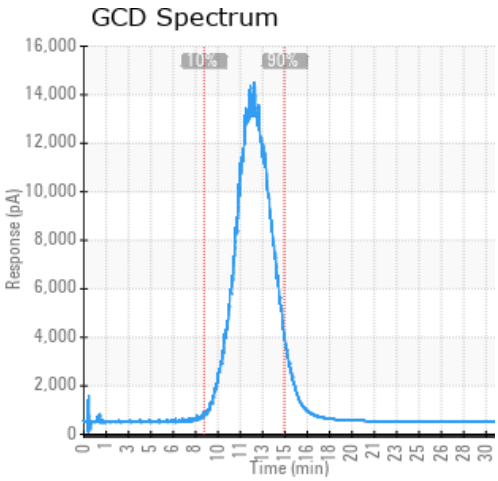
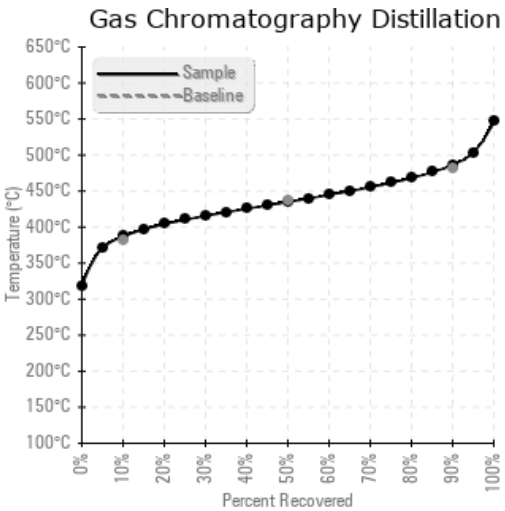


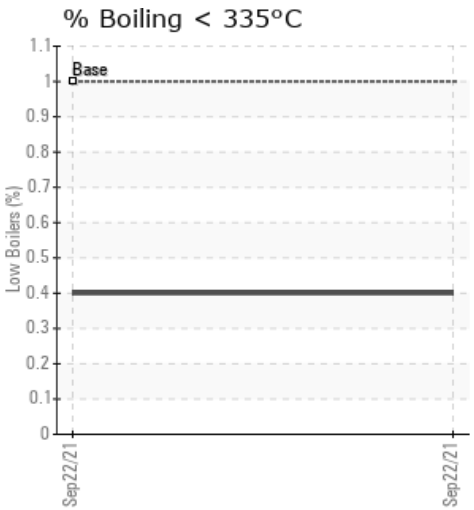


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
09/22/21	16	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0	

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







Historical Comments

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