

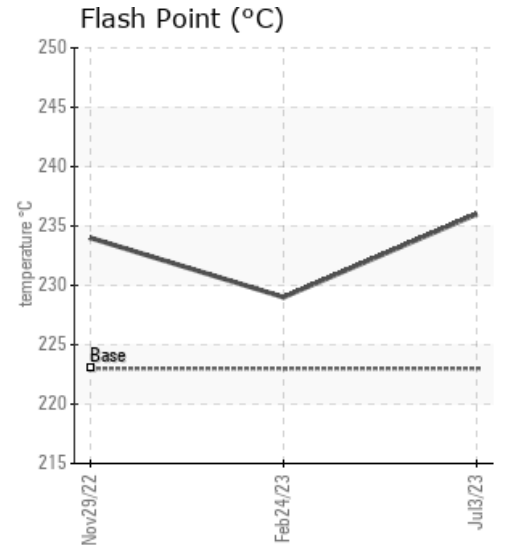
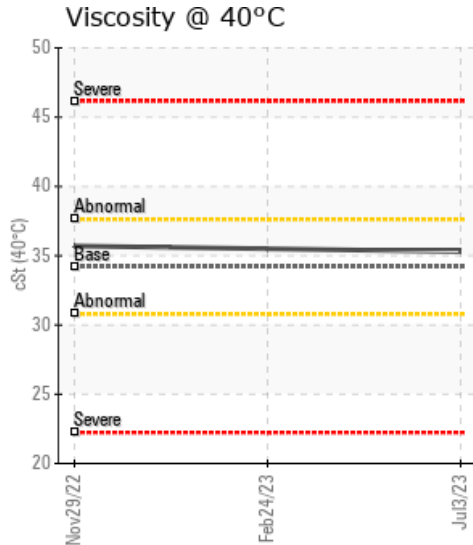
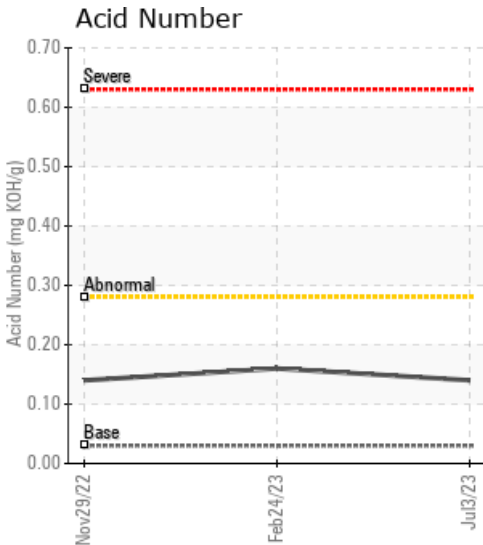
[LSD: 1-29-57-21-W4] E901

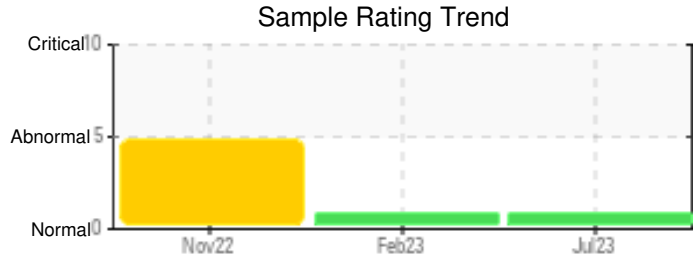
Customer: PTRHTF20272	System Information	Sample Information
CONIFER ENERGY BOX 1050 REDWATER, AB T0A 1W0 CA Attn: Clint Lawrence Tel: (780)221-0087 E-Mail: clint.lawrence@coniferenergy.ca	System Volume: 42000 ltr Bulk Operating Temp: 378F / 192C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02569204 Analyst: Clinton Buhler Sample Date: 07/03/23 Received Date: 07/11/23 Completed: 07/13/23 Clinton Buhler Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please ensure blanket gas remains operational in the expansion tank. Resample in 12 months.

Comments:

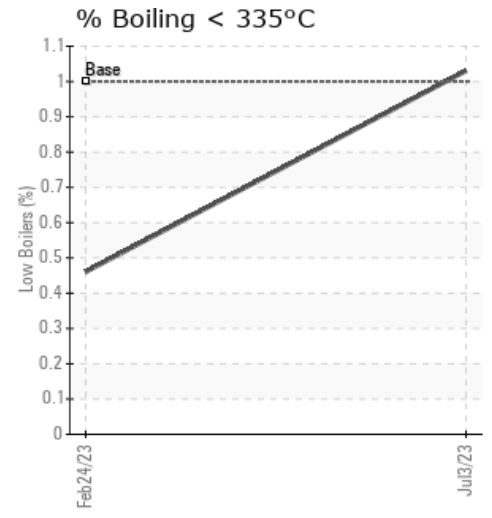
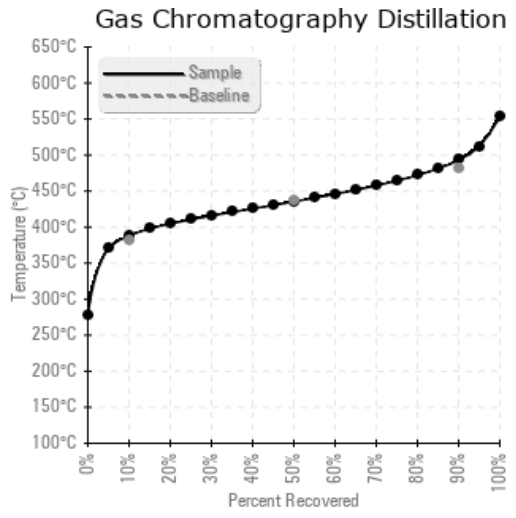
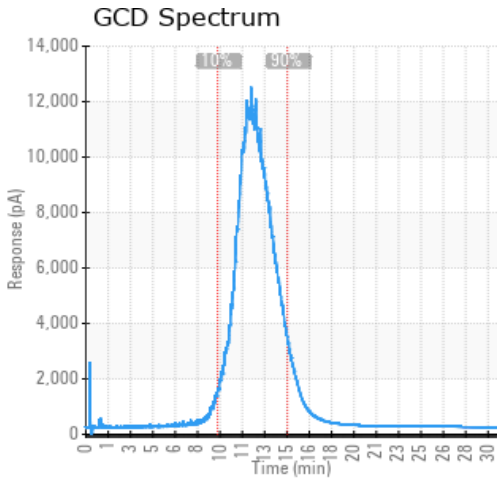
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/03/23	07/11/23	0.0y		457 / 236	318.4	35.3	0.14	0.074	730 / 388	816 / 436	920 / 493	1.03
02/24/23	03/17/23	7.0y	pump suction	444 / 229	17.3	35.5	0.16	0.060	734 / 390	817 / 436	924 / 496	0.46
11/29/22	12/13/22	6.0y	hot oil pump P903	453 / 234	18.5	35.7	0.14	0.120				
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
07/03/23	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02/24/23	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/22	5	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%]



Historical Comments

02/24/23	Oil is in good shape and suitable for continued use. Resample again in 6 months. (GCD) 90% Distillation Point is marginally high.
11/29/22	*** High amount of free water present in the sample (>5%). SimDist (GCD) analysis could not be performed ***Ensure sample is representative of system and resample.

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