

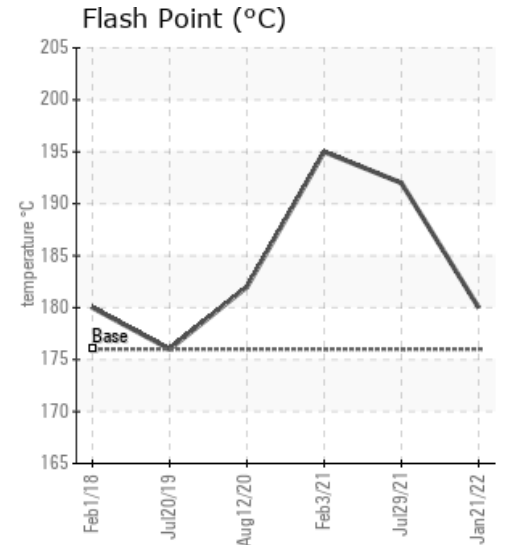
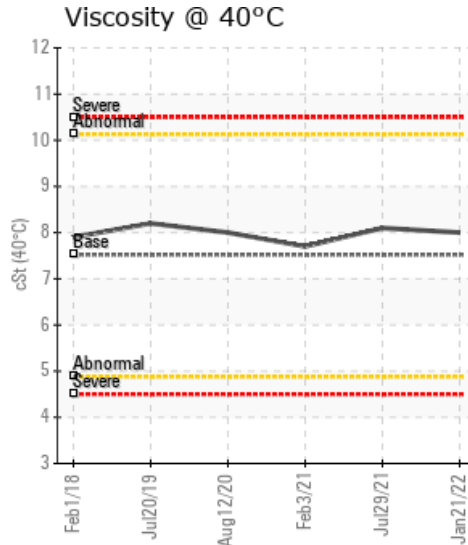
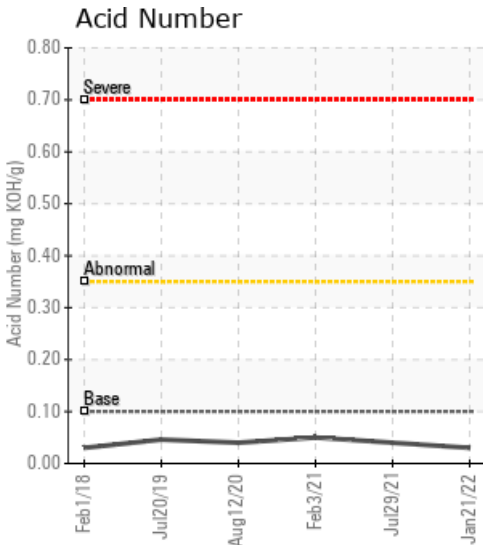
[ATHABASCA OIL CORP / 13-03-79-10W4M] PAD 5 LIESMER

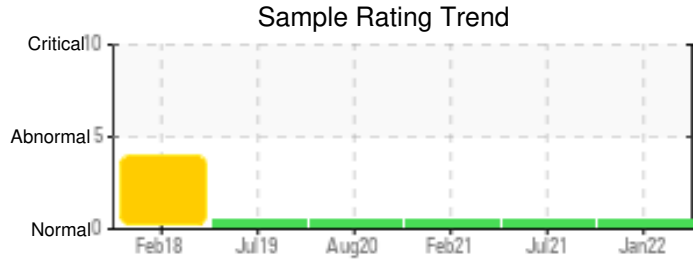
Customer: PTRHTF20133	System Information	Sample Information
ATHABASCA OIL CORP. LEISMER DEMONSTRATION PLANT LSD2-79-10-W4M NEAR CONKLIN, AB Canada Attn: George Ball Tel: (587)233-1312 E-Mail: gball@atha.com	System Volume: 8000 ltr Bulk Operating Temp: 212F / 100C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO LT Make:	Lab No: 02470275 Analyst: Terry Veenstra Sample Date: 01/21/22 Received Date: 02/04/22 Completed: 02/07/22 Terry Veenstra terry.veenstra@hollyfrontier.com

Recommendation: Fluid is in good condition and suitable for continued use. Resample in 6 months.

Comments:

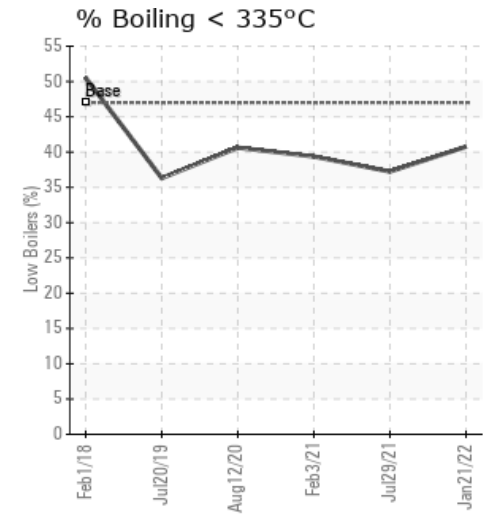
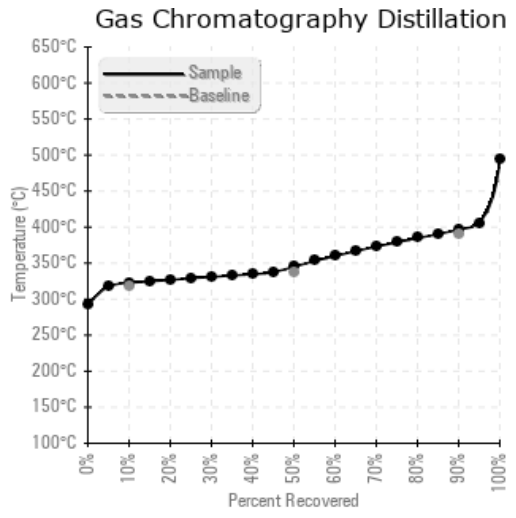
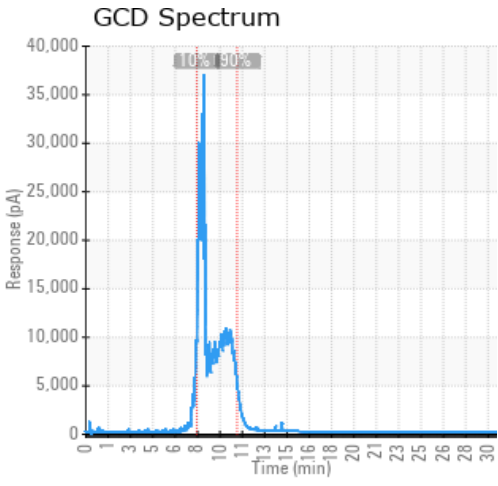
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/21/22	02/04/22	0.0y	system header	356 / 180	3.1	8	0.03	0.020	613 / 323	653 / 345	746 / 397	40.76
07/29/21	08/10/21	0.0y	12e fu284	378 / 192	8.2	8.1	0.04	0.040	615 / 324	651 / 344	744 / 396	37.23
02/03/21	02/24/21	0.0y	Bott. of tracer tree	383 / 195	24.1	7.7	0.05	0.122	614 / 323	653 / 345	748 / 398	39.36
08/12/20	08/31/20	0.0y	P0102B	360 / 182	6.0	8.0	0.04	0.050	613 / 323	653 / 345	747 / 397	40.62
07/20/19	08/09/19	0.0y		349 / 176	0.00	8.2	0.046	0.063	613 / 323	653 / 345	747 / 397	36.31
Baseline Data				349 / 176		7.52	0.1		604 / 318	640 / 338	734 / 390	47.0





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
01/21/22	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	245	0
07/29/21	7	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	258	0
02/03/21	5	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	242	0
08/12/20	5	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	261	0
07/20/19	7	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	250	0
Baseline Data			0	0						0			0	0				0	0				270	

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



Historical Comments	
07/29/21	Fluid is in good condition and is suitable for continued use. Resample in 6 months.
02/03/21	Fluid is in good condition and good for continued use. Resample in 6 months
08/12/20	Results Normal. No action needed at this time. Resample at next scheduled date.
07/20/19	Test results are normal. No immediate action required. Resample at the next interval.

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