

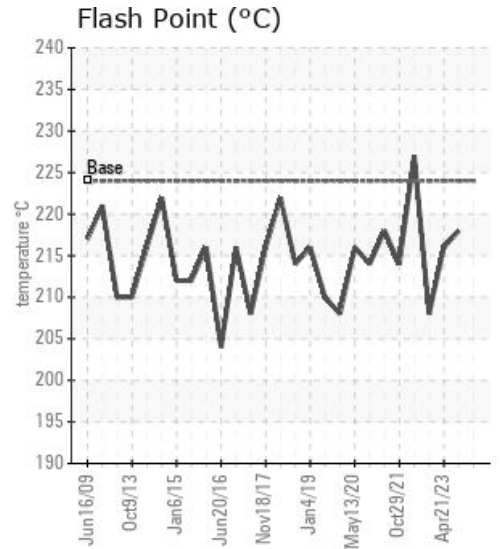
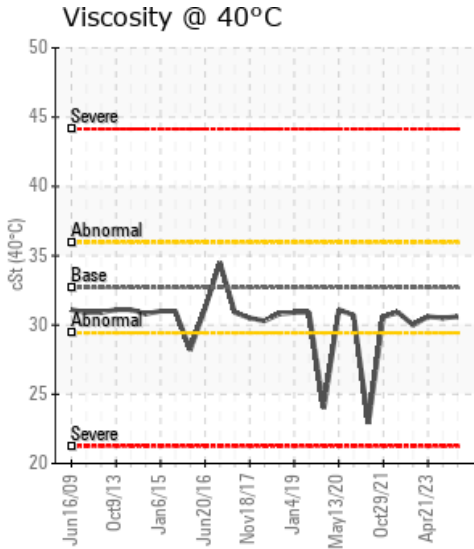
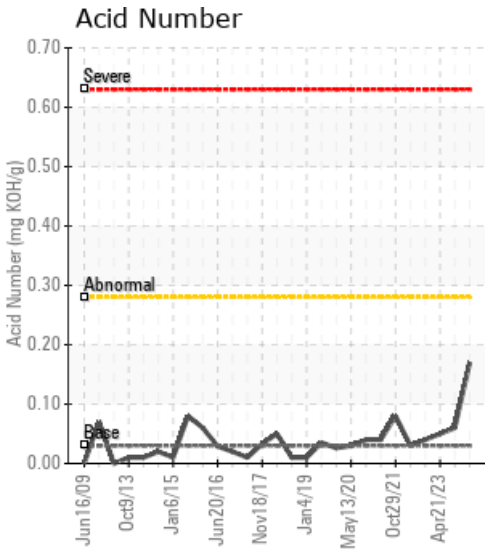
PHASE 2

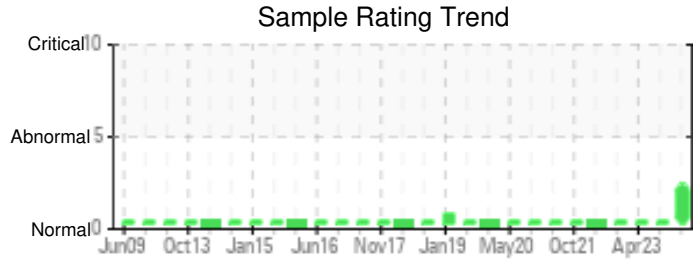
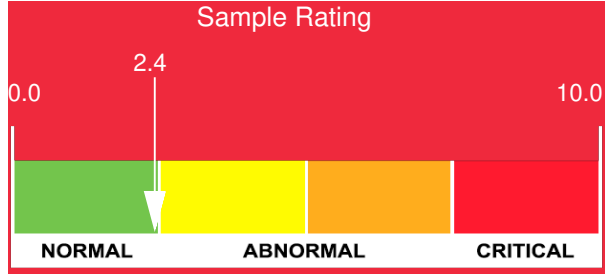
Customer: PTRHTF10092	System Information	Sample Information
REC GROUP 119410 RICK JONES WAY BUTTE (SILVER BOW), MT 59750 US Attn: Bill Telling Tel: (406)496-9929 E-Mail: bill.telling@recsilicon.com	System Volume: 41640 gal Bulk Operating Temp: 425F / 218C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: EXOTHERM	Lab No: 02633703 Analyst: Ron LeBlanc Sample Date: 04/23/24 Received Date: 05/06/24 Completed: 05/14/24 Ron LeBlanc Ronald.LeBlancSr@HFSinclair.com

Recommendation: Sample contains 1% free water. It is also much darker than the previous sample. The fluid appears normal otherwise.

Comments:

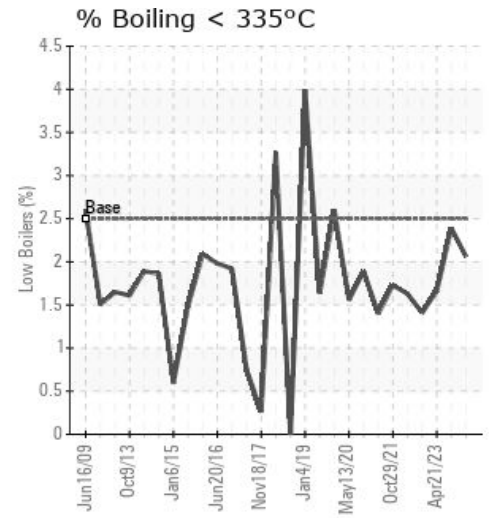
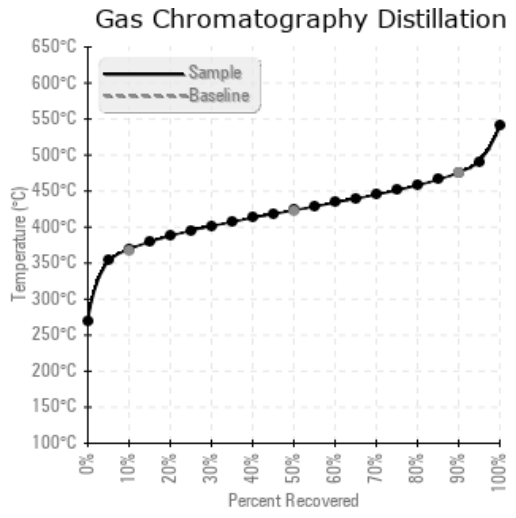
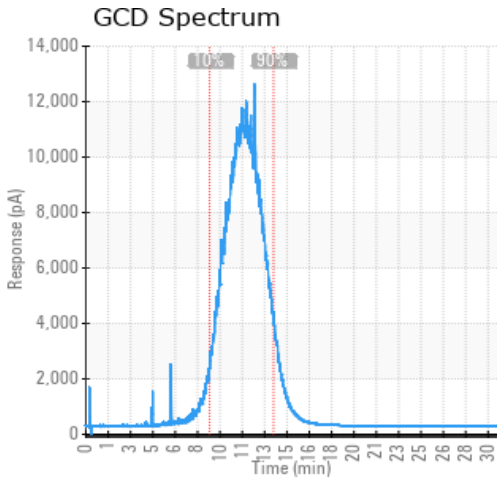
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/23/24	05/06/24	21.0y			105	30.6	0.17	0.083	697 / 369	794 / 423	888 / 476	2.06
10/25/23	11/09/23	20.0y	PUMP	424 / 218	108.6	30.5	0.06	0.031	695 / 368	793 / 423	888 / 476	2.39
04/21/23	05/08/23	19.0y		421 / 216	41.2	30.6	0.05	0.041	698 / 370	794 / 423	887 / 475	1.66
11/02/22	11/15/22	18.0y	PUMP DISCHARGE	406 / 208	12.1	30.0	0.04	0.247	700 / 371	793 / 423	885 / 474	1.41
03/23/22	04/07/22	18.0y		441 / 227	8.1	30.9	0.03	0.025	699 / 370	794 / 423	888 / 476	1.63
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
04/23/24	8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10	0
10/25/23	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
04/21/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
11/02/22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
03/23/22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Baseline Data			0	0						0			0	0					0				270	

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



Historical Comments	
10/25/23	Sample appears normal. Water content is slightly elevated. Re-Sample in 4-6 months.
04/21/23	Sample appears to be normal. No action required currently. Resample at next scheduled interval.
11/02/22	Sample indicates oil is in good condition. Resample at normal interval.
03/23/22	Sample Appears Normal. Re-sample in 6 months.

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