

[Kings Cupboard] B100 LEE

Customer: PTRHTF10078
 WEST FORK CREATIONS
 15 PEPSI DRIVE
 RED LODGE, MT 59068 US
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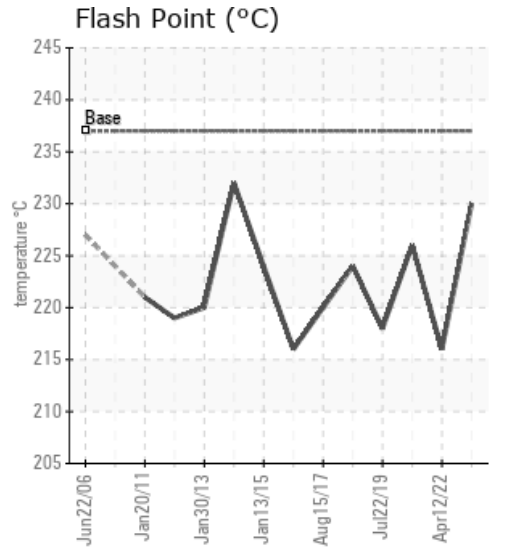
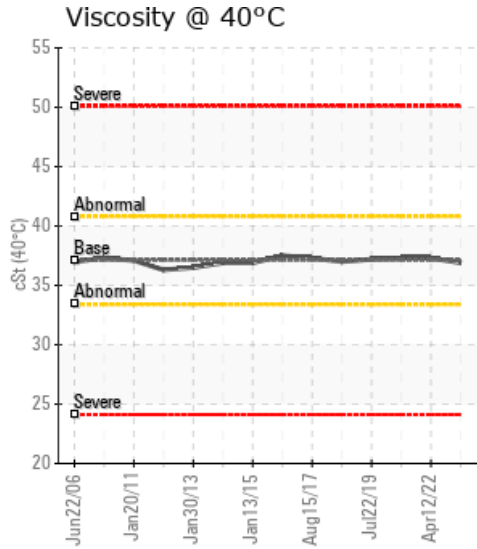
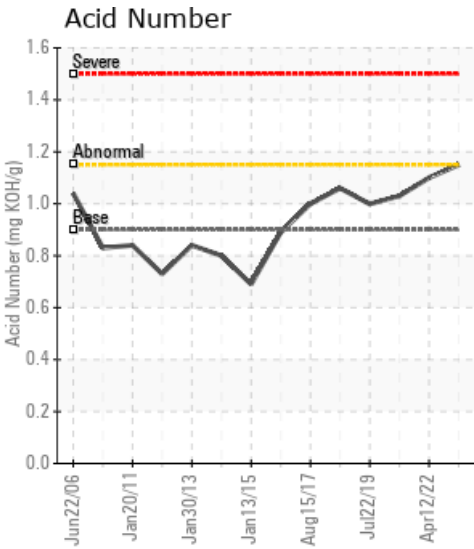
System Information
 System Volume: 25 gal
 Bulk Operating Temp: 450F / 232C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID
 Make: STERLCO

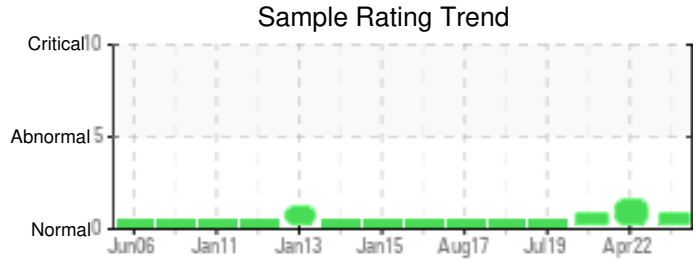
Sample Information
 Lab No: 02639039
 Analyst: Ron LeBlanc
 Sample Date: 05/20/24
 Received Date: 05/30/24
 Completed: 06/04/24
 Ron LeBlanc
 Ronald.LeBlancSr@HFSinclair.com

Recommendation: Sample is acceptable. Re-sample in 6 months.

Comments: (GCD) 90% Distillation Point is marginally high.

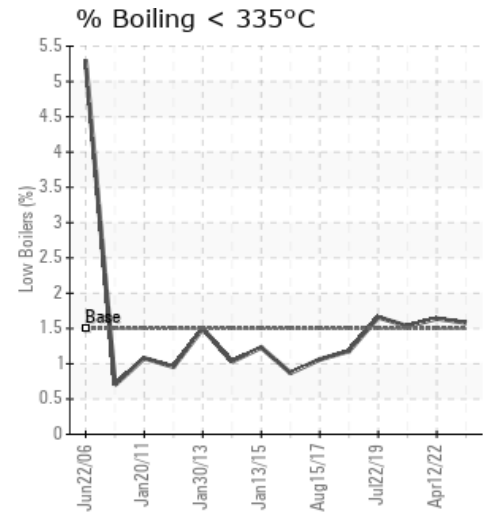
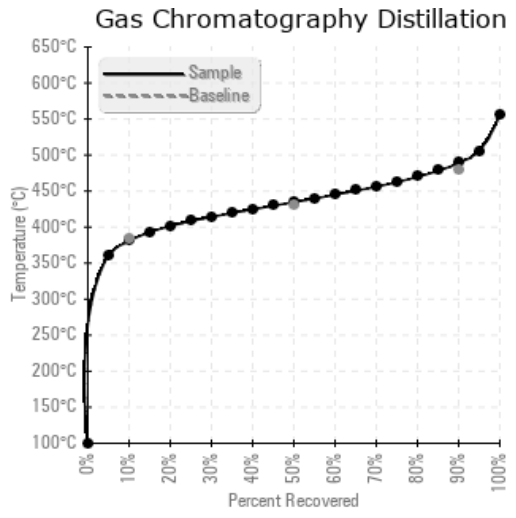
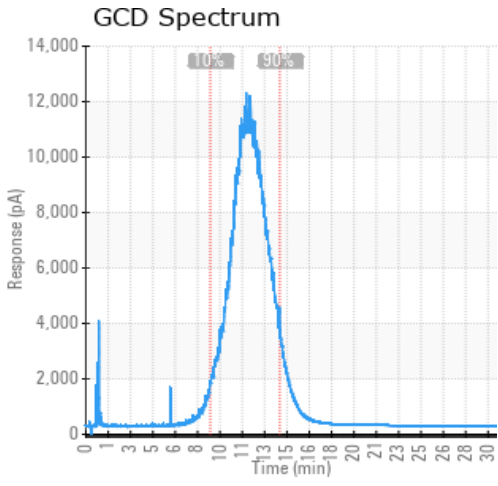
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/20/24	05/30/24	0.0y	bottom front drain	446 / 230	15	36.9	1.15	0.104	717 / 381	814 / 435	912 / 489	1.58
04/12/22	08/03/22	1.0y	drain	421 / 216	47.3	37.3	1.10	0.433	723 / 384	818 / 437	916 / 491	1.64
10/29/20	11/11/20	0.0y	Drain	439 / 226	24.0	37.3	1.03	0.079	722 / 383	818 / 436	915 / 491	1.53
07/22/19	08/01/19	0.0y	DRAIN PLUG	424 / 218	21.0	37.2	0.999	0.055	698 / 370	793 / 423	894 / 479	1.66
06/28/18	07/23/18	5.0y	OIL DRAIN	435 / 224	12.0	37.0	1.06	0.050	717 / 380	813 / 434	910 / 488	1.18
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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	
05/20/24	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	1	
04/12/22	11	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	67	2
10/29/20	8	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	67	3
07/22/19	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	69	3
06/28/18	7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	66	3
Baseline Data			0	0						0			0	0				0	0					230	

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



Historical Comments	
04/12/22	Pentane insolubles can indicate fouling in the system. (GCD) 90% Distillation Point is marginally high and has increased in last 2 samples. This can indicate oxidation products (sludge) in the system. Make sure at next sample to purge a good amount of oil before collecting sample. Pentane Insolubles levels are abnormally high. (GCD) 90% Distillation Point is marginally high.
10/29/20	Sample appears normal. The (GCD) 90% Distillation point is slightly high. Re-Sample in 3 months. (GCD) 90% Distillation Point is marginally high.
07/22/19	Sample appears normal. Re-sample at normal cycle.
06/28/18	Sample appears normal. Resample at normal interval.

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