

[4-21-55-23-W5] H-1311

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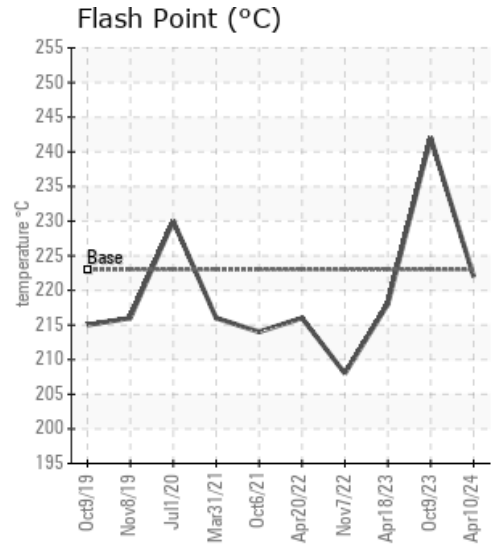
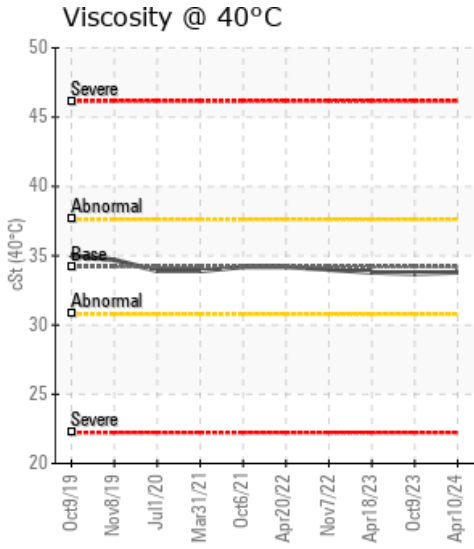
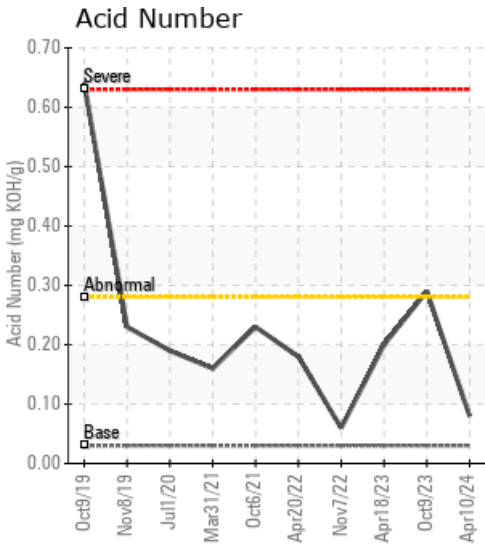
System Information
 System Volume: 18000 ltr
 Bulk Operating Temp: 351F / 177C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: ALCO

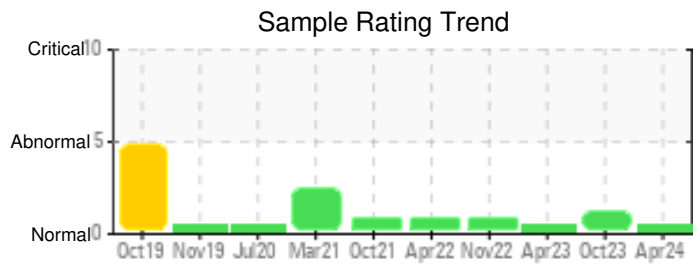
Sample Information
 Lab No: 02629061
 Analyst: Clinton Buhler
 Sample Date: 04/10/24
 Received Date: 04/16/24
 Completed: 04/22/24
 Clinton Buhler
 Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months.

Comments:

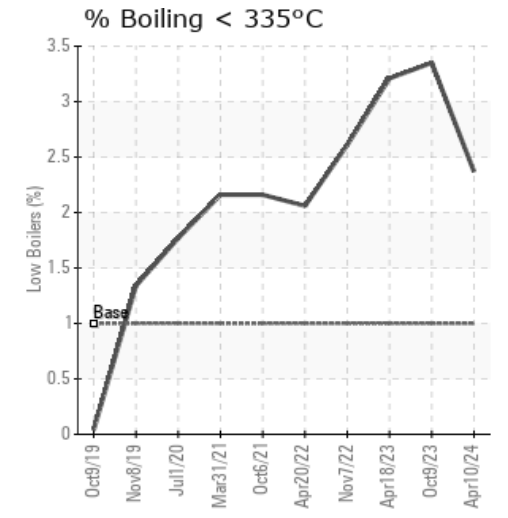
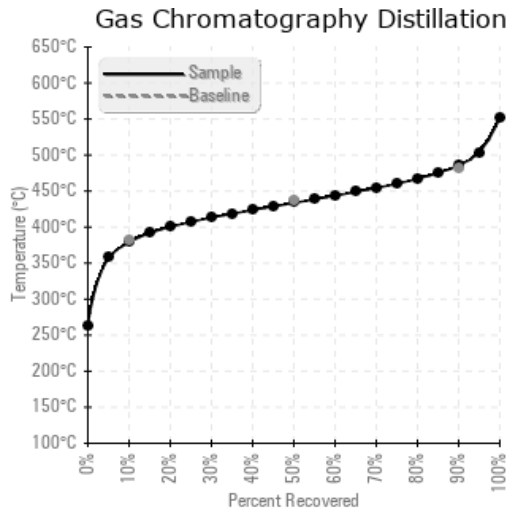
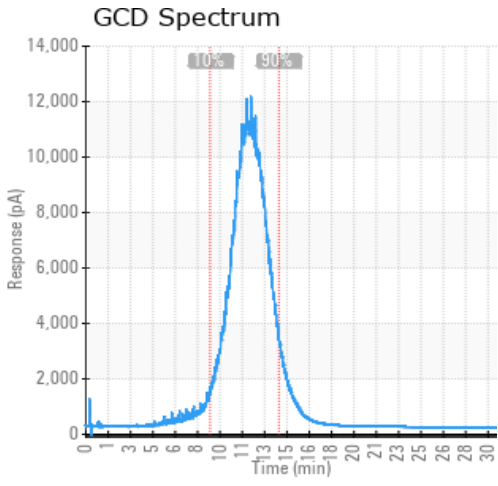
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/10/24	04/16/24	37005.0h	pump discharge	432 / 222	18	33.8	0.08	0.361	714 / 379	812 / 434	906 / 486	2.37
10/09/23	10/19/23	35205.0h	pump discharge	468 / 242	18.4	33.7	0.29	0.348	708 / 375	811 / 433	907 / 486	3.35
04/18/23	04/24/23	31038.0h	pump discharge	424 / 218	28.9	33.8	0.20	0.377	711 / 377	812 / 433	905 / 485	3.21
11/07/22	11/11/22	27176.0h	pump discharge	406 / 208	14.9	34.0	0.06	0.481	715 / 380	811 / 433	906 / 485	2.61
04/20/22	04/26/22	22856.0h	pump discharge	421 / 216	14.0	34.2	0.18	0.392	722 / 383	816 / 436	912 / 489	2.06
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
04/10/24	40	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
10/09/23	39	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0
04/18/23	36	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
11/07/22	38	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0
04/20/22	40	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	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	
10/09/23	Sample results indicate the fluid is in suitable condition for continued service. Please note that the fluid's Acid Number has increased slightly. Please ensure blanket gas remains operational in the expansion tank to prevent air ingestion and re-sample in 8 months.
04/18/23	Sample results indicate that the fluid is in suitable condition for continued service. Please continue fine filtering of solids. Please re-sample in 12 months
11/07/22	Sample results indicate that the fluid is in suitable condition for continued service. Please investigate options for finer filtration media to further reduce solids. Please re-sample in 12 months
04/20/22	Sample results indicate that the fluid is in suitable condition for continued service. Please note Solids content; it has reduced from 0.541% to 0.392%. Hopefully this is due to ongoing filtering of the system. If possible, investigate options for finer filtration media to further reduce solids. Please re-sample in 6 months

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