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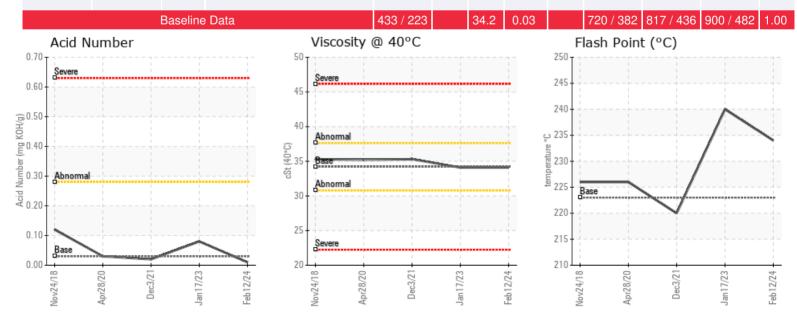
Bulk Operating Temp: 345F / 174C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: PETRO TECH

Lab No: 02619426 Analyst: Clinton Buhler Sample Date: 02/12/24 Received Date: 03/01/24 Completed: 03/06/24 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

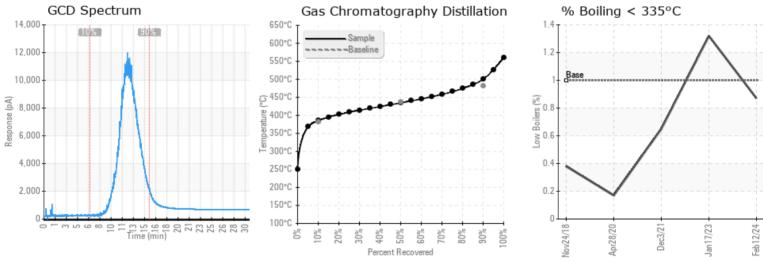
Comments:

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	%
02/12/24	03/01/24	96.0m		453 / 234	75	34.1	0.01	0.034	724 / 385	814 / 434	932 / 500	0.87
01/17/23	01/26/23	0.0m	HIGH POINT BLEED INL	464 / 240	406.1	34.1	0.08	0.134	733 / 389	821 / 438	920 / 493	1.32
12/03/21	03/10/22	4.0m	Exp tank disch line	428 / 220	235.6	35.3	0.02	0.073	729 / 387	815 / 435	916 / 491	0.65
04/28/20	04/29/20	36.0m	EXPANSION TANK PUMP	439 / 226	301.3	35.2	0.03	0.067	733 / 390	817 / 436	917 / 492	0.17
11/24/18	12/18/18	18.0m		439 / 226	152.0	35.3	0.12	0.045	721 / 383	810 / 432	917 / 492	0.38



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## Historical Comments

01/17/23	Sample results indicate the fluid is in suitable condition for continued service. Please vent off water as steam through the expansion tank if safe to do so. Water can cause premature fluid degradation. Please re-sample in 12 months Water contamination levels are marginally high. Water contamination levels are marginally high ppm Water contamination levels are marginally high. (GCD) 90% Distillation Point is marginally high.
12/03/21	Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months
04/28/20	Sample results indicate that the heat transfer fluid is suitable for continued service. There is 301ppm of water which is not as high as unit 5500-2, but should be monitored. Please ensure sample point and hardware is thoroughly purged before obtaining fluid sample. Please re-sample in 12 months.
11/24/18	The fluid is in excellent condition and suitable for further use. Please re-sample in 6 months.

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