[TOURMALINE OIL CORP / LSD 4-17-51-18W5] TOURMALINE EDSON PLANT UH-5000

Customer: PTRHTF20039

BRENNTAG CANADA INC 3124-54TH AVENUE SE

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Attn: Matthew Kryska

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System Information

System Volume: 19000 ltr

Bulk Operating Temp: 437F / 225C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make:

Sample Information

Lab No: 02549152 Analyst: Lyle Dach Sample Date: 03/08/23 Received Date: 03/31/23 Completed: 04/10/23

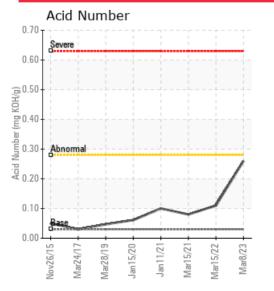
Lyle Dach

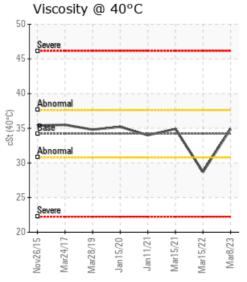
lyle.dach@HFSinclair.com

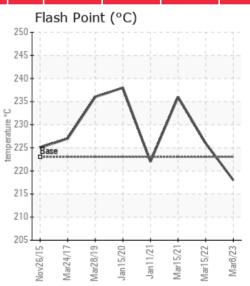
Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months.

Comments:

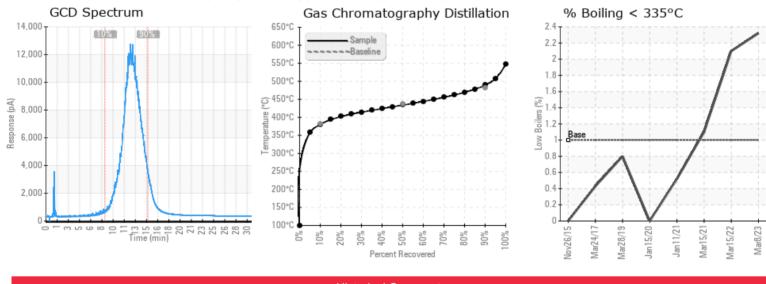
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
03/08/23	03/31/23	0.0y	sight glass	424 / 218	13.0	34.9	0.26	0.096	716 / 380	813 / 434	912 / 489	2.32
03/15/22	04/11/22	2.0y	sight glass	439 / 226	171.6	28.7	0.11	0.055	718 / 381	813 / 434	915 / 490	2.10
03/15/21	03/30/21	5.0y	Pump suction	457 / 236	7.2	34.9	0.08	0.051	720 / 382	815 / 435	924 / 496	1.10
01/11/21	01/22/21	6.0y	SITE GLASS	432 / 222	11.1	34.0	0.10	0.080	726 / 386	815 / 435	913 / 490	0.52
01/15/20	02/03/20	5.0y		460 / 238	7.2	35.2	0.061	0.078	723 / 384	806 / 430	903 / 484	0.00
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00











	Historical Comments						
03/15/22	Sample results indicate the fluid is in suitable condition for continued service. Viscosity has been reduced yet flash point, distillation curve and low boiling vapor content are in good condition. Please re-sample in 12 months.						
03/15/21	Fluid remains in excellent condition. No change since previous sample in January 2021. (GCD) 90% Distillation Point is marginally high.						
01/11/21	This fluid appears to be in good condition. Maintain good system maintenance practices and resample in 6 months.						
01/15/20	The fluid is in good condition and suitable for further use. Please re-sample in 12 months.						

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