

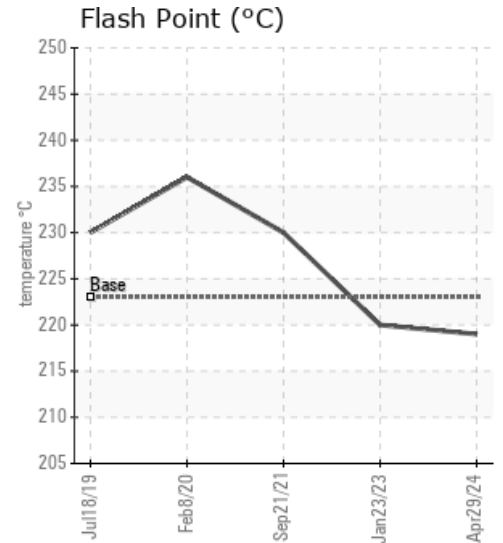
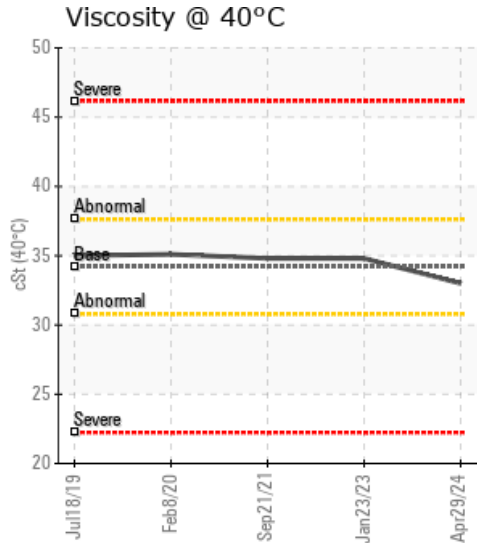
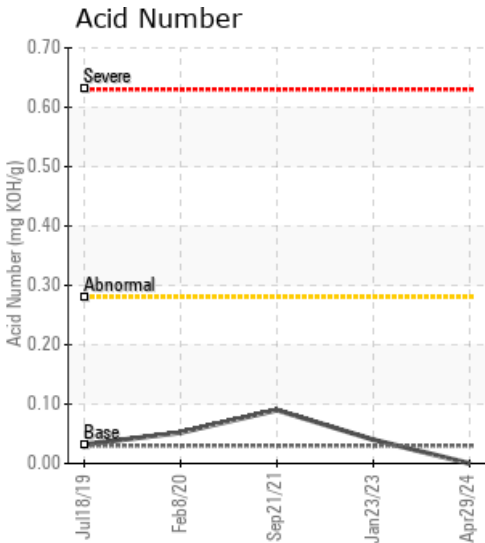
### [C-60-A/94-B-16] PHASE 1

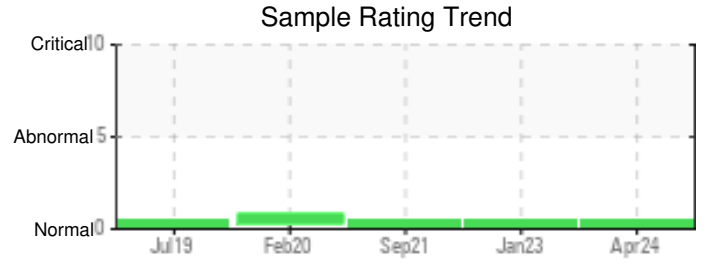
Customer: PTRHTF20216	System Information	Sample Information
TOURMALINE OIL C-60-A/94-B-16 103, 6911-100 AVE FORT ST. JOHN, BC V1J 1T8 CA Attn: Brian Plontke Tel: (780)524-9780 E-Mail: Brian.plontke@tourmalineoil.com	System Volume: 95000 ltr Bulk Operating Temp: 392F / 200C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: PETRO TECH	Lab No: 02634210 Analyst: Clinton Buhler Sample Date: 04/29/24 Received Date: 05/08/24 Completed: 05/14/24 Clinton Buhler Clinton.Buhler@HFSinclair.com

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

Comments:

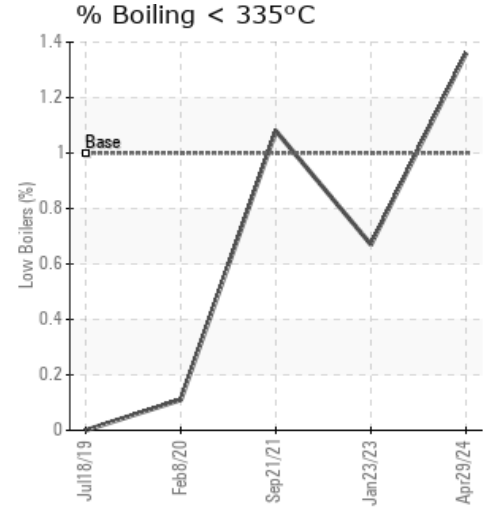
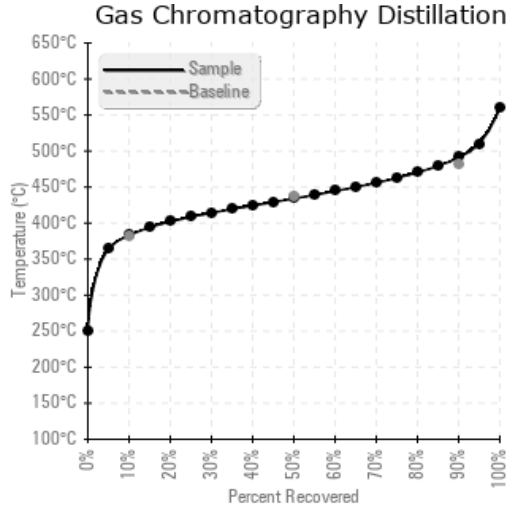
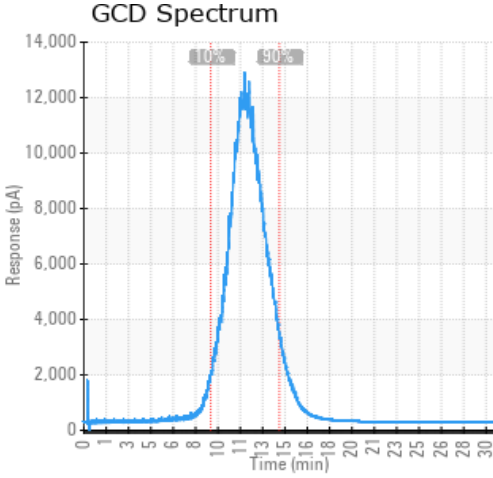
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/29/24	05/08/24	60.0m		426 / 219	132	33.0	0.00	0.027	721 / 383	813 / 434	916 / 491	1.36
01/23/23	01/26/23	42.0m	PUMP DISCH PHASE 1	428 / 220	21.5	34.8	0.04	0.084	735 / 391	821 / 438	912 / 489	0.67
09/21/21	10/06/21	0.0m	pump discharge	446 / 230	63.8	34.8	0.09	0.041	727 / 386	814 / 434	906 / 485	1.08
02/08/20	03/02/20	10.0m	PUMP DISCHARGE	457 / 236	162.4	35.1	0.052	0.119	729 / 387	829 / 443	925 / 496	0.11
07/18/19	07/25/19	2.5m	PUMP DISCHARGE	446 / 230	173.0	35.0	0.032	0.258	717 / 381	801 / 427	894 / 479	0.00
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
04/29/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/23/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/21/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
02/08/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
07/18/19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Baseline Data</b>			0	0						0			0	0				0					0	

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



### Historical Comments

01/23/23	Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months
09/21/21	Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months
02/08/20	Sample results indicate that the fluid is suitable for continued service. (GCD) 90% Distillation Point is marginally high but this does not reduce the fluid's performance. Please resample in 12 months.
07/18/19	First run of sample results indicate that the heat transfer fluid is suitable for continued service. Please re-sample in 6 months

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