

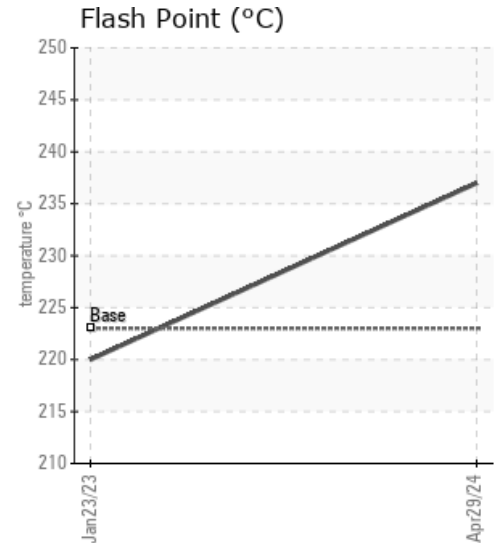
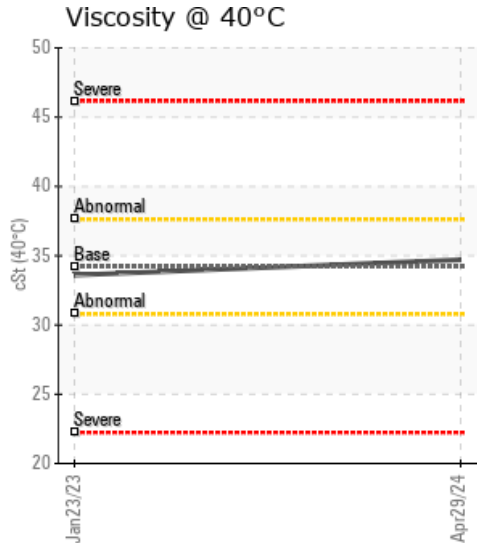
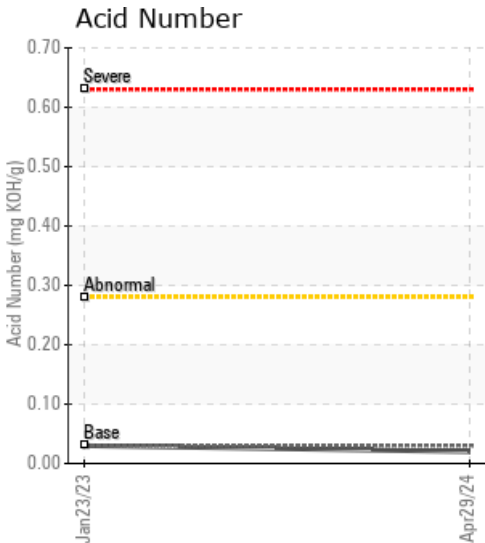
[C-60-A / 94-B-16] PHASE 2

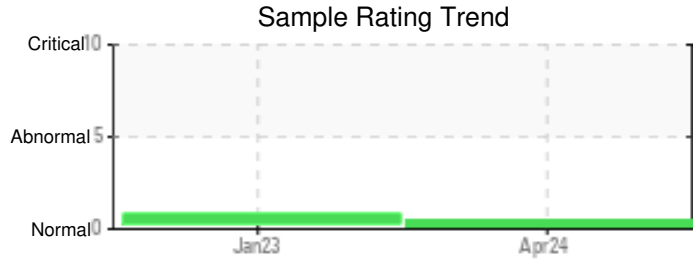
Customer: PTRHTF20216	System Information	Sample Information
TOURMALINE OIL C-60-A/94-B-16 103, 6911-100 AVE FORT ST. JOHN, BC V1J 1T8 CA Attn: Brian Plontke Tel: (780)524-9780 E-Mail: Brian.plontke@tourmalineoil.com	System Volume: 95000 ltr Bulk Operating Temp: 392F / 200C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: PETRO TECH	Lab No: 02634211 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:

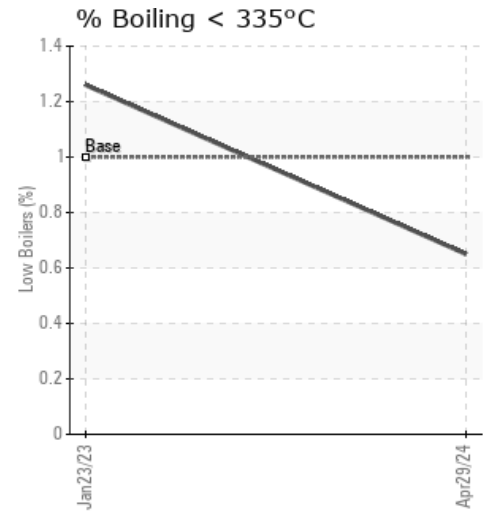
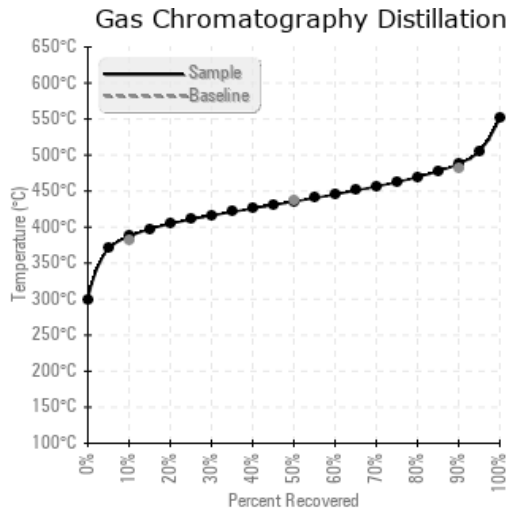
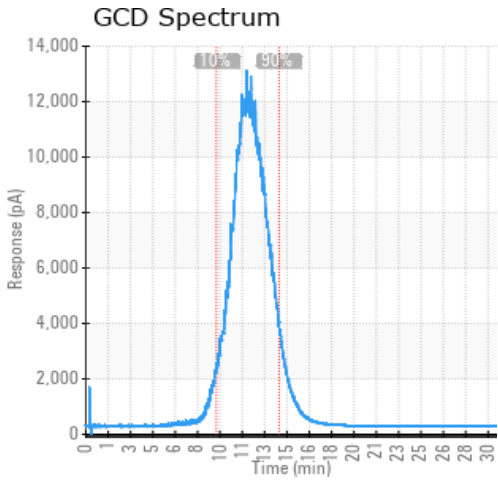
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/29/24	05/08/24	36.0m		459 / 237	53	34.7	0.02	0.041	728 / 387	816 / 436	910 / 488	0.65
01/23/23	01/26/23	12.0m	PUMP DISCH PHASE 2	428 / 220	27.8	33.6	0.03	0.112	730 / 388	820 / 438	920 / 493	1.26
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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

01/23/23	Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months (GCD) 90% Distillation Point is marginally high.
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