

[TOURMALINE OIL CORP / LSD 14-20-56-23W5] TOURMALINE WILDRIVER TRAIN 2

Customer: PTRHTF20046

QUADRA CHEMICALS 12925 146TH STREET

EDMONTON, AB T5L 2H6 CANADA

Attn: Ada Aponte

Tel:

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System Information

System Volume: 29000 ltr

Bulk Operating Temp: 446F / 230C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make:

Sample Information

Lab No: 02193419 Analyst: Peter Harteveld Sample Date: 01/11/18 Received Date: 01/18/18 Completed: 01/23/18

To discuss this report contact Peter

Harteveld at (780)967-4234

Recommendation: Please fill in service life of the oil on the analysis request form !The water content is elevated but other than that the oil is in good condition and suitable for further use. It is recommended to boil-off the water to atmosphere, check the source of water and rectify as necessary. Please re-sample in 6 months.

Comments: Water contamination levels are marginally high. Water contamination levels are marginally high. (GCD) 90% Distillation Point is marginally high.

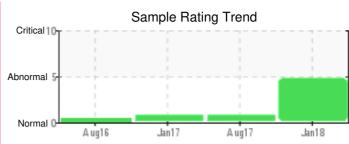




01/29/17

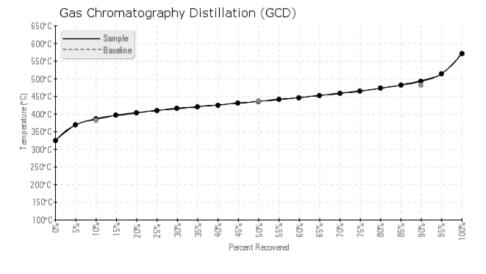
08/16/16

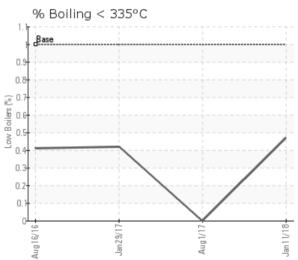




	Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
	01/11/18	21	0	0	0	0	0	0	4	0	0	1	15	0	0	0	0	0	0	1	0	4	1	1	1
	08/01/17	8	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0
	01/29/17	14	0	0	0	0	0	0	2	0	0	0	12	0	0	0	0	1	0	0	0	2	1	1	1
	08/16/16	6	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0
Ba	seline Data			0	0						0			0	0					0				0	

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





Historical Comments

The fluid is in good condition and suitable for further use. The 90% GCD temperature is slightly high. This indicates an acceptable rate of fluid degradation by oxidation. Ensure blanket gas is working properly. Listing the service life of the fluid on the sample label is important when sending in the next sample. Please resample in 12 months. (GCD) 90% Distillation Point is marginally high.

The fluid is in a good condition and suitable for further use. An increase in 90% GCD temperature indicates some moderate oxidation. Make sure to keep blanket gas on. Please re-sample in 6 months. (GCD) 90% Distillation Point is marginally high.

The fluid is in a good condition and suitable for further use. Please re-sample in 6 months.

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