

## **TOURMALINE BANSHEE 5500-1**

## Customer: PTRHTF20046

QUADRA CHEMICALS 12925 146TH STREET

EDMONTON, AB T5L 2H6 CANADA

Attn: Ada Aponte

Tel:

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# System Information

System Volume: 20000 ltr

Bulk Operating Temp: 482F / 250C

**Heating Source:** 

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make:

## Sample Information

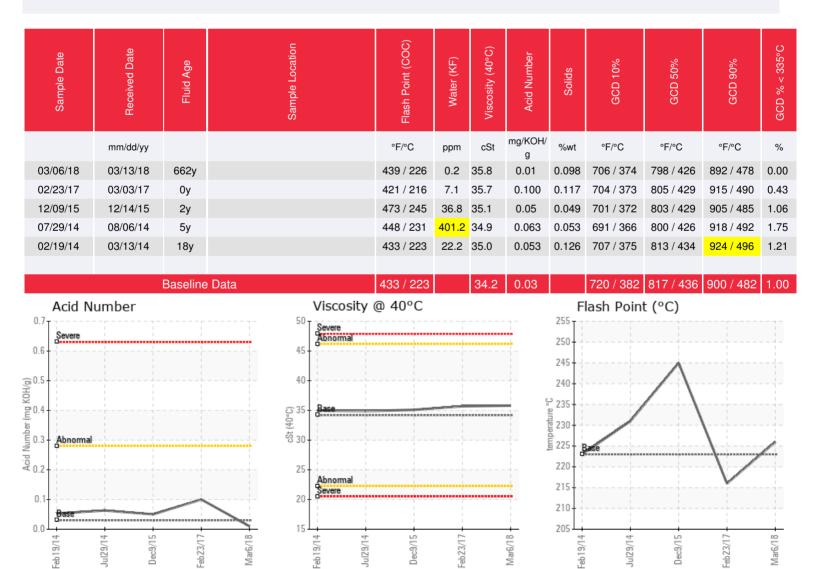
Lab No: 02203575 Analyst: Peter Harteveld Sample Date: 03/06/18 Received Date: 03/13/18 Completed: 03/17/18

To discuss this report contact Peter

Harteveld at (780)967-4234

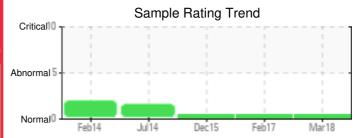
Recommendation: The fluid is in excellent condition and suitable for further use. Please re-sample in 12 months and rectify fluid service life at that time.

#### Comments:



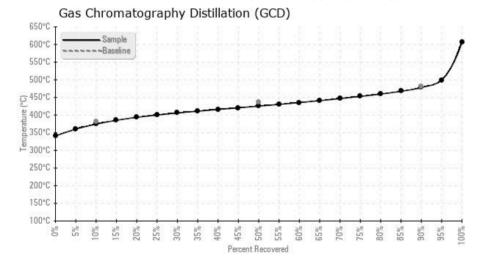


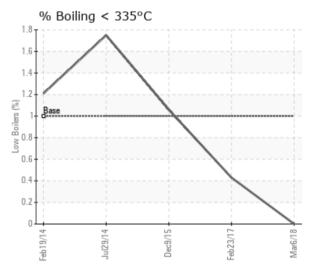




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tīn	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
03/06/18	1	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
02/23/17	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/09/15	4	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
07/29/14	8	0	0	0	0	1	0	1	0	0	2	1	0	0	0	0	0	0	0	0	1	0	1	1
02/19/14	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0	
07/29/14 02/19/14	8	0	0 0	0 0	0	1 0	0	1 0	0	0 0	2	0	0 0	0	0	0	0	0	0	0	1	0	1	1

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





	Historical Comments
02/23/17	The fluid is in good condition and suitable for further use. Please re-sample in 12 months.
12/09/15	The fluid is in excellent condition. Please re-sample in 12 months.
07/29/14	The fluid is in good condition. Water content is elevated but not alarming. The difference in water content compared with the sample taken in February 2014 is however large. Please check for source of water. It is recommended to vent off the water vapor via thief hatch. This is most efficient with blanket gas removed but should be done only a few hours at a time to avoid the fluid from oxidizing in contact with outside air at high temperature. Water contamination levels are marginally high. Water contamination levels are marginally high ppm Water contamination levels are marginally high.
02/19/14	The fluid is in good condition and suitable for further use.GCD 90% temperature is slightly elevated indicating some oxidation is taking place. It is recommended to re-sample in 6 months time. (GCD) 90% Distillation Point is marginally high.

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