

SILANE 4.0 DISTILLATION

Customer: PTRHTF10093

REC GROUP 3322 ROAD N N.E.

MOSES LAKE, WA 98837 USA

Attn: Sam Bright Tel: (509)766-8902

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System Information

System Volume: 50000 gal

Bulk Operating Temp: 420F / 216C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: COEN

Sample Information

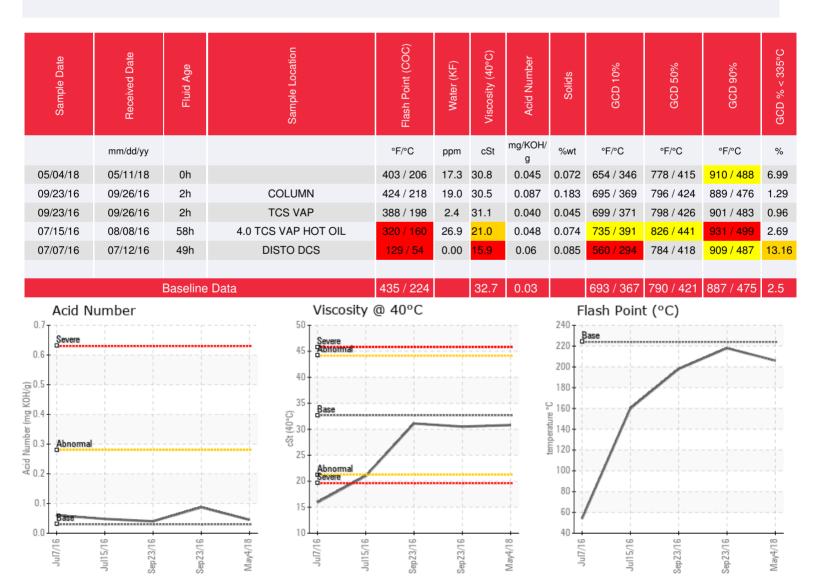
Lab No: 02215919 Analyst: Ron LeBlanc Sample Date: 05/04/18 Received Date: 05/11/18 Completed: 06/05/18

To discuss this report contact Ron

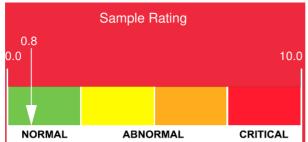
LeBlanc at (541)678-7044

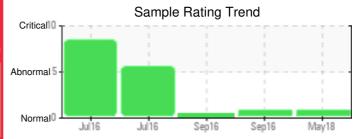
Recommendation: Resample at normal interval. (GCD) 90% Distillation Point is marginally high. Possibility that not enough oil is purged from sample point.

Comments: (GCD) 90% Distillation Point is marginally high.



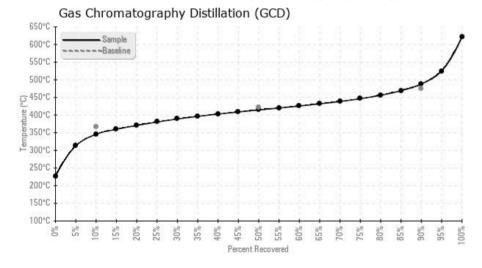


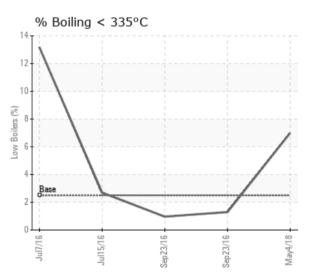




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
05/04/18	54	0	0	0	0	1	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	195	0
09/23/16	116	0	0	0	0	0	0	0	0	0	14	1	0	0	0	0	1	0	0	0	0	0	288	1
09/23/16	17	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	262	1
07/15/16	45	0	0	0	0	0	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0	0	58	0
07/07/16	20	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	15	0
Baseline Data			0	0					F.1.0	0		1.00	0	0					0				270	

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





Historical Comments							
09/23/16	Iron elevated. Sample is normal otherwise.Iron ppm levels are noted.						
09/23/16	Sample Appears Normal.						
07/15/16	(GCD) 90% Distillation Point is severely high. COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) 10% Distillation Point is marginally high. (GCD) 90% Distillation Point is severely high. COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) 10% Distillation Point is marginally high. (GCD) 50% Distillation Point is marginally high.						
07/07/16	The oil viscosity is about half of what it should be. The flash point of the oil is now extremely low. The oil contains a large amount of low boilers (13% by weight). Similar to the other 4.0 sample, if the entire charge of the system fluid looks like this sample it brings the difficult decision that the fluid should probably be replaced or do a significant sweetening to restore the flash point and other properties. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. Visc @ 40°C is severely low. (GCD) % < 335°C is abnormally high. (GCD) 90% Distillation Point is marginally high.						

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