

# [DEASE DEVINE / LSD 12-27-81-18W6] CREW ENERGY SEPTIMUS PLANT SK-500

### Customer: PTRHTF20109

Crew Energy Septimus Plant

12-27-81-18W6

8043-100TH AVENUE

FORT ST.JOHN, BC V1J 1W2 Canada

Attn: Dease Devine Tel: (250)262-1957

E-Mail: deasedevine@crewenergy.com

### System Information

System Volume: 18000 ltr

Bulk Operating Temp: 365F / 185C

**Heating Source:** 

Blanket:

Fluid: SUNOCO SUN HEAT TRANSFER 21 PD

Make: NATCO

## Sample Information

Lab No: 02131770

Analyst: Bill Quesnel CLS, OMA II, MLA-

III,LLA-I

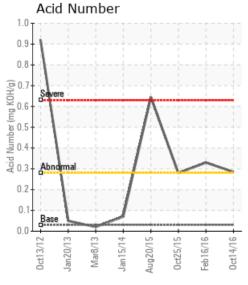
Sample Date: 10/14/16 Received Date: 03/10/17 Completed: 03/17/17

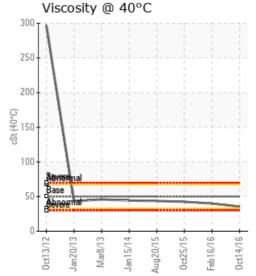
To discuss this report contact Bill

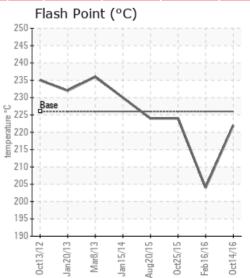
Recommendation: Resample at the next service interval to monitor.

Comments: The water content is negligible. There is no indication of any contamination in the component. (GCD) 90% Distillation Point is marginally high. (GCD) 10% Distillation Point is marginally low. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

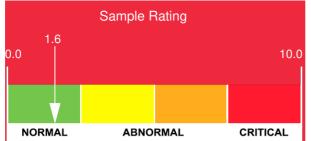


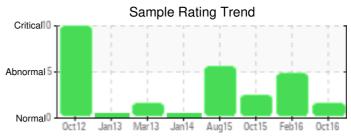






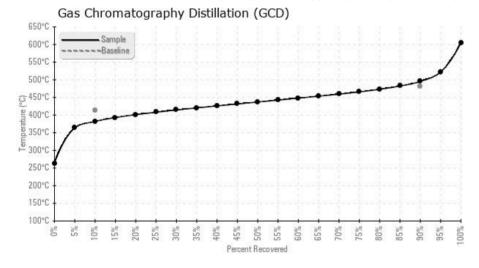


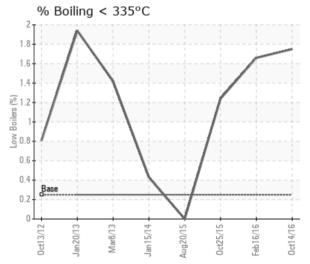




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
10/14/16	18	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
02/16/16	11	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
10/25/15	57	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	1	0	1	0	0	0
08/20/15	107	0	0	0	0	0	0	2	0	0	1	0	1	0	0	0	1	0	3	0	2	0	0	1
01/15/14	66	0	0	0	0	0	0	2	0	0	1	0	1	0	0	0	1	0	1	0	2	0	1	1
03/08/13	54	0	0	0	0	0	0	4	0	0	0	2	1	0	1	0	1	0	0	0	4	0	1	1
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** The GCD @90% indicating some heavier ends in the sample. Suspect some sludging is starting to form in the sample likely due to thermal cracking. This would 02/16/16 also cause the increase in Pentane Insolubles. Still advising that you continue to monitor by sampling in 6 months time. Pentane Insolubles levels are severely high. (GCD) 90% Distillation Point is marginally high. The GCD @90% indicating some heavier ends in the sample. Suspect some sludging is starting to form in the sample likely due to thermal cracking. This would also cause the increase in Pentane Insolubles. Continue to monitor. Pentane Insolubles levels are severely high. (GCD) 90% Distillation Point is marginally high. 10/25/15 The Acid number is abnormally high on this sample as is the GCD @90% indicating some heavier ends in the sample. Suspect some sludging is starting to form in the sample likely due to thermal cracking. This would also cause the increase in Pentane Insoluables. Pentane Insolubles levels are severely high. Acid 08/20/15 Number (AN) is severely high. (GCD) 90% Distillation Point is abnormally high. Pentane Insolubles levels are abnormally high. 01/15/14 The condition is very similar to the last sample in January. Keep re-sampling at fixed interval to monitor the fluid condition. Pentane Insolubles levels are severely 03/08/13 high.