



## HOT OIL (USINE HULL)

Customer: PTRHTF20103	System Information	Sample Information
CNRL P.O. BOX 6808 EDSON, AB T7E 1L5 Canada Attn: Rodney Marcichiw Tel: (780)517-3542 E-Mail: rodney.marcichiw@cnrl.com	System Volume: 1040 ltr Bulk Operating Temp: 365F / 185C Heating Source: Blanket: Fluid: SHELL HEAT TRANSFER OIL S2 X Make: BUCAN	Lab No: 02382371 Analyst: Terry Veenstra Sample Date: 10/13/20 Received Date: 10/20/20 Completed: 10/23/20 Terry Veenstra terry.veenstra@petrocanadalsp.com

Recommendation: Acid Number and Pentane Insolubles are high indicating oxidation of fluid has taken place. Flash Point is low. GCD @ 10% is low at 369°C indicating the presence of low boilers. Fluid should be vented at regular intervals as part of good fluid maintenance to eliminate low boilers. Resample in 6 months.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low.

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	%
10/13/20	10/20/20	18m		385 / 196	27.1	43.3	0.84	0.966	697 / 369	845 / 452	947 / 508	5.64
Baseline Data				500 / 260		54	0.05		777 / 414	867 / 464	964 / 518	0.00



