

**[16-36-67-09W6] H8003**

**Customer: PTRHTF60054**  
 CANADIAN NATURAL RESOURCES (CNRL)  
 16-36-67-09W6 WAPITI  
 GROVEDALE, AB CA  
 Attn: Jason Eveleigh  
 Tel: (780)832-4136  
 E-Mail: jason.eveleigh@cnrl.com

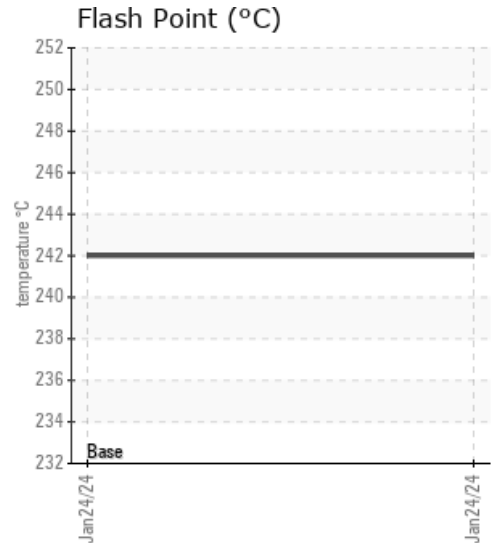
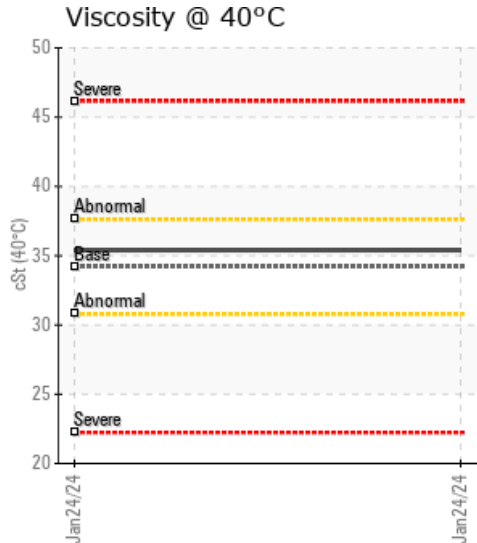
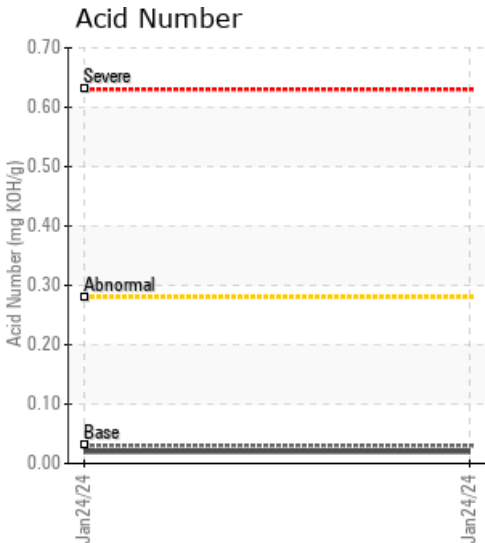
**System Information**  
 System Volume: 8000 ltr  
 Bulk Operating Temp: 482F / 250C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PETRO-THERM  
 Make: TDE

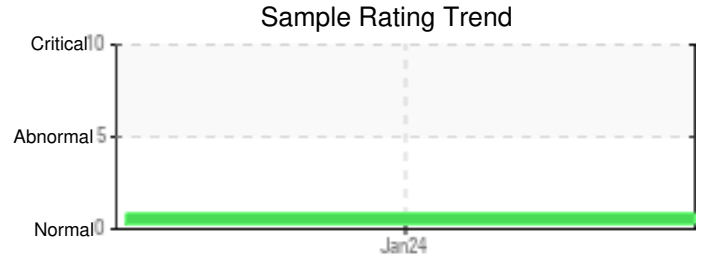
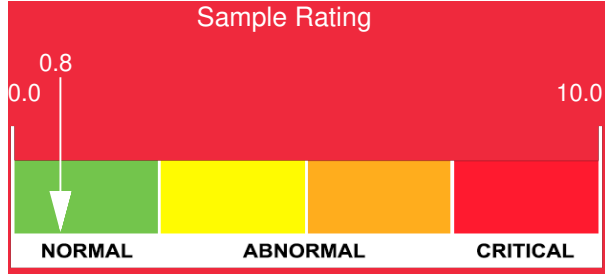
**Sample Information**  
 Lab No: 02613280  
 Analyst: Clinton Buhler  
 Sample Date: 01/24/24  
 Received Date: 02/02/24  
 Completed: 02/09/24  
 Clinton Buhler  
 Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 6 months to begin building sample trend.

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

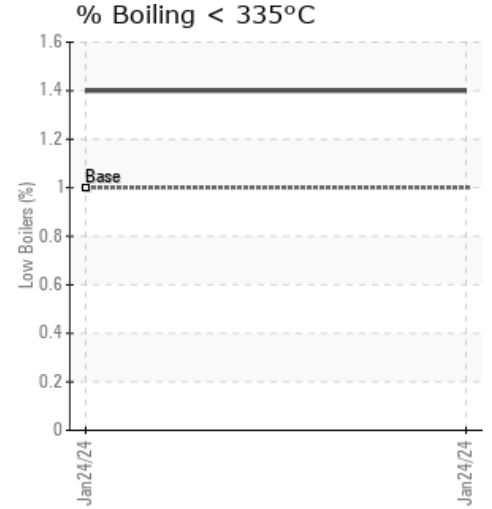
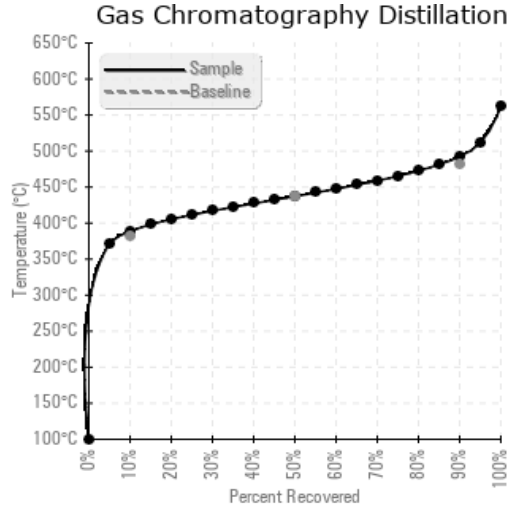
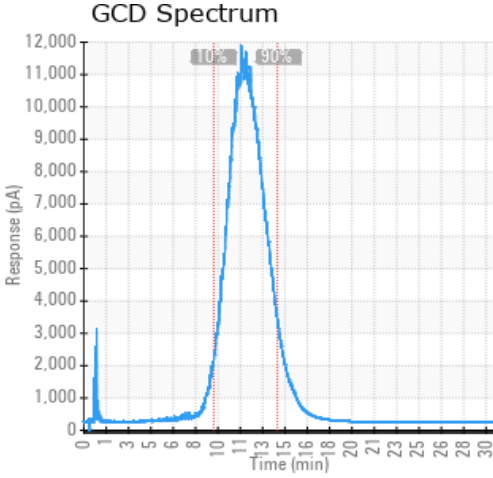
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/24/24	02/02/24	0.0m		468 / 242	19	35.4	0.02	0.067	731 / 388	819 / 437	919 / 493	1.40
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
01/24/24	21	0	0	2	0	0	0	0	0	0	5	0	2	0	0	0	0	0	0	0	2	0	0	0
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


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