

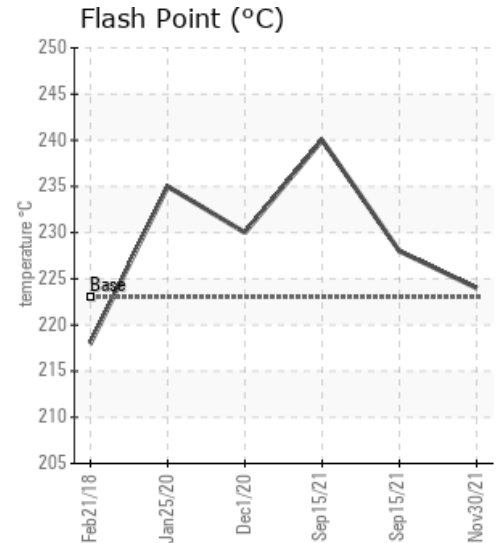
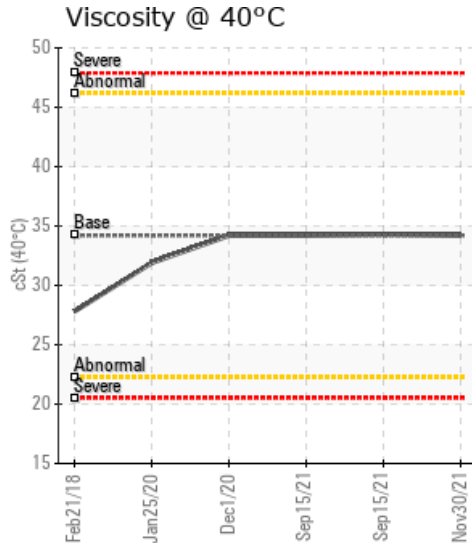
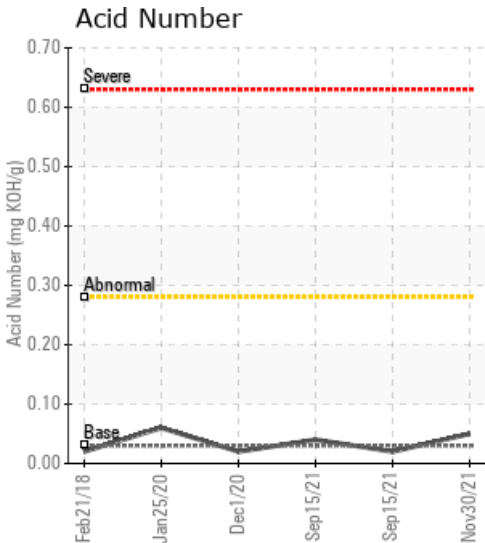
## [LSD 08-10-68-08-W6 Clairmont] HEAT MEDIUM

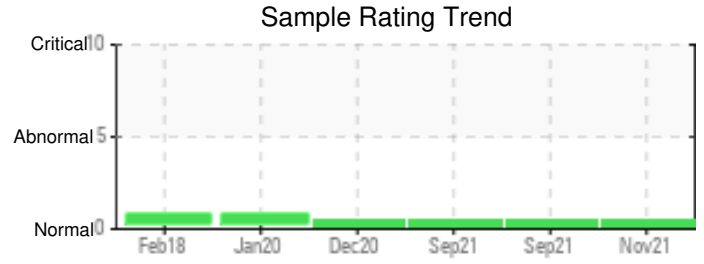
Customer: PTRHTF20245	System Information	Sample Information
NUVISTA ENERGY LTD RR 93 WEMBLY, AB T8W 0H6 Canada Attn: Eldon Weaver Tel: (780)831-5603 E-Mail: eweaver@nvaenergy.com	System Volume: 4000 gal Bulk Operating Temp: 536F / 280C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: ALCO	Lab No: 02465034 Analyst: Clinton Buhler Sample Date: 11/30/21 Received Date: 01/06/22 Completed: 01/13/22 Clinton Buhler Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months

Comments:

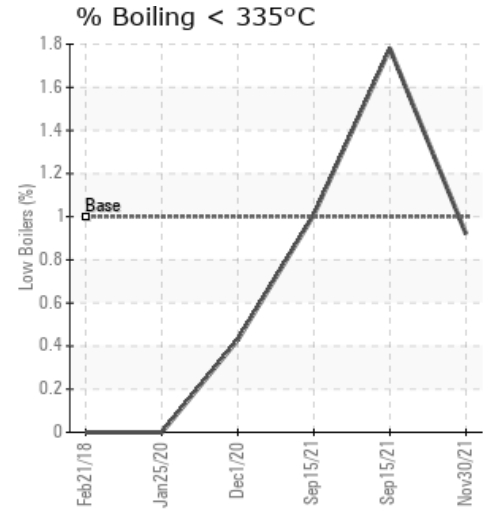
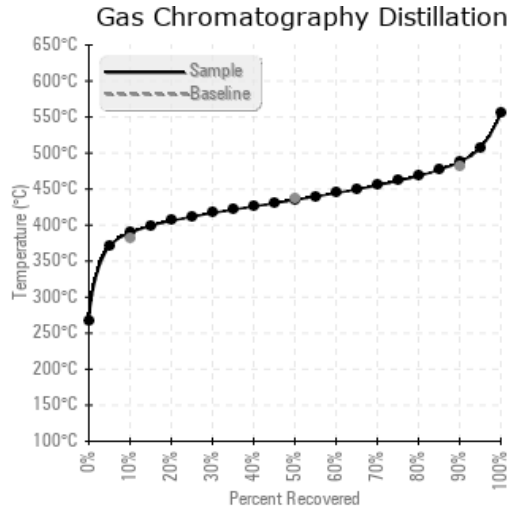
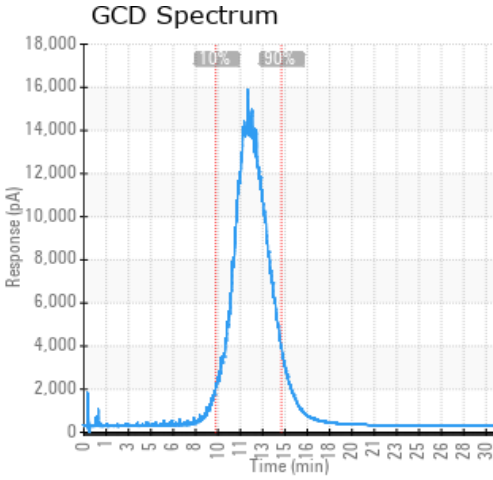
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/30/21	01/06/22	0.0y	at pump	435 / 224	15.0	34.2	0.05	0.036	732 / 389	815 / 435	910 / 488	0.92
09/15/21	12/13/21	0.0y	RETURN LOOP	442 / 228	14.7	34.3	0.02	0.040	728 / 387	814 / 435	909 / 487	1.78
09/15/21	10/26/21	0.0y	return loop	464 / 240	7.2	34.2	0.04	0.037	732 / 389	815 / 435	909 / 487	1.01
12/01/20	01/14/21	6.0y	PUMP DISCHARGE	446 / 230	15.3	34.2	0.02	0.066	733 / 390	816 / 436	910 / 488	0.43
01/25/20	02/04/20	2.0y	RETURN LOOP	455 / 235	9.9	31.9	0.060	0.097	770 / 410	817 / 436	888 / 476	0.00
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
11/30/21	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
09/15/21	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/15/21	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/01/20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/25/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Baseline Data</b>			0	0						0			0	0					0				0	

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



### Historical Comments

09/15/21	Sample results indicate that the fluid is in suitable condition for continued service. Please include time on oil for next analysis. Please re-sample in 12 months
09/15/21	Sample results indicate that the fluid is in suitable condition for continued service. Please re-sample in 12 months
12/01/20	Analysis results indicate that the heat transfer fluid is in suitable condition for continued service. Please re-sample in 12 months
01/25/20	Sample results indicate that the heat transfer fluid is suitable for continued service. (GCD) 10% Distillation Point has increased as has the fluids Flash Point and viscosity but are still within acceptable ranges. Continue to monitor and re-sample in 6 months.

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