

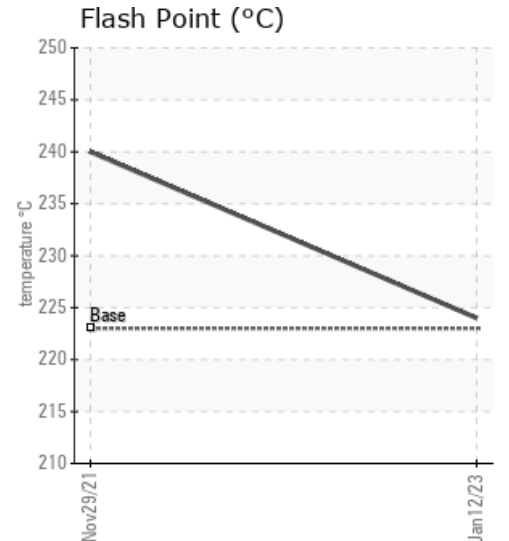
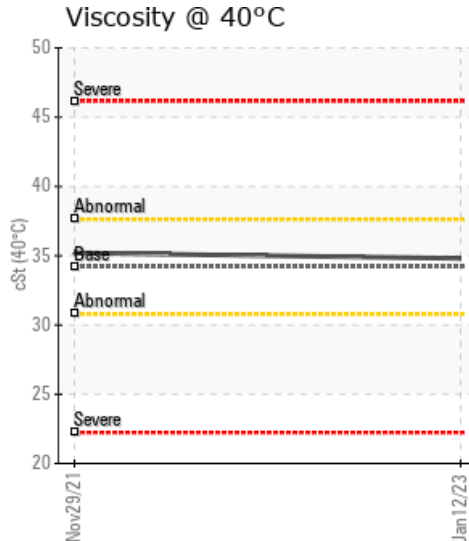
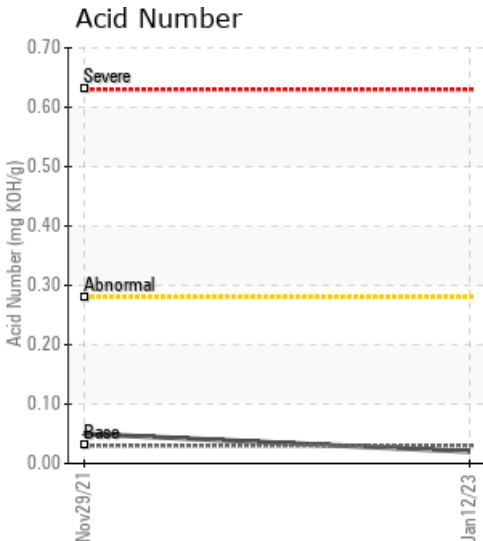
## [14-17-70-8W6] HEAT MEDIUM

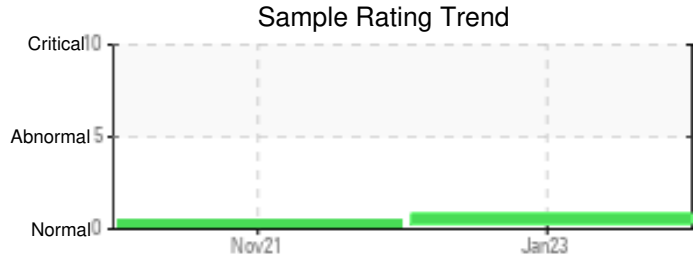
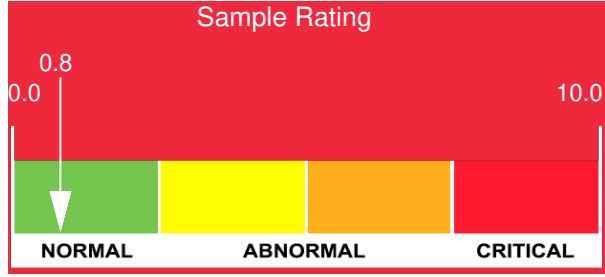
Customer: PTRHTF20245	System Information	Sample Information
NUVISTA ENERGY LTD RR 93 WEMBLY, AB T8W 0H6 Canada Attn: Eldon Weaver Tel: (780)831-5603 E-Mail: eweaver@nvaenergy.com	System Volume: 0 ltr Bulk Operating Temp: 415F / 213C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HEAT TECH	Lab No: 02544410 Analyst: Clinton Buhler Sample Date: 01/12/23 Received Date: 03/10/23 Completed: 03/13/23 Clinton Buhler Clinton.Buhler@HFSinclair.com

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

Comments:

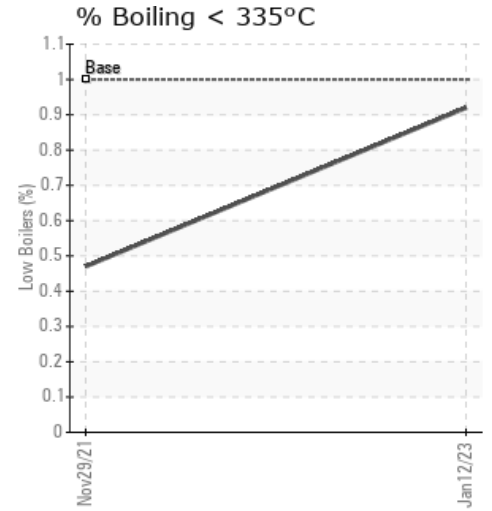
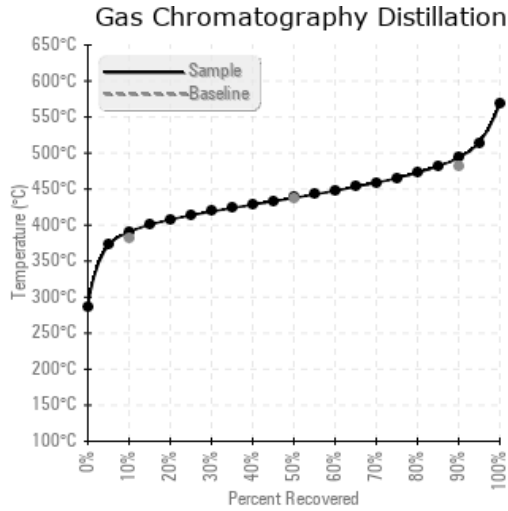
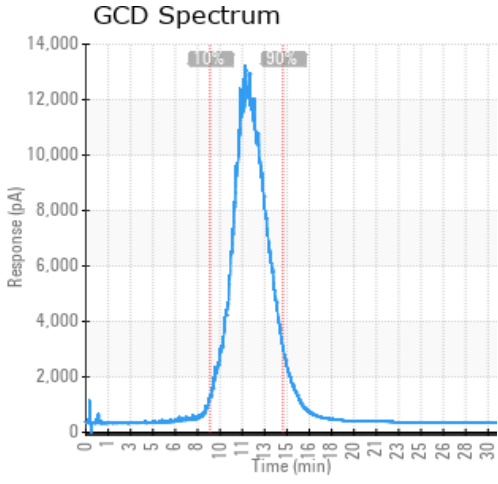
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/12/23	03/10/23	28.0m		435 / 224	14.2	34.8	0.02	0.057	735 / 390	820 / 438	920 / 494	0.92
11/29/21	01/06/22	0.0m	pump inlet	464 / 240	14.0	35.2	0.05	0.036	736 / 391	819 / 437	917 / 492	0.47
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
01/12/23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	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

11/29/21	Sample results indicate that the fluid is in suitable condition for continued service. Please ensure expansion tank blanket gas is functional. Please re-sample in 6 months to help build a data trend.

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