

RELUTHERM RTAG-14

Customer: PTRHTF40043
 MORA PRODUCTIE BV
 FREGATWEG 53
 MAASTRICHT 6222NZ
 MAASTRICHT, 6222NZ NL
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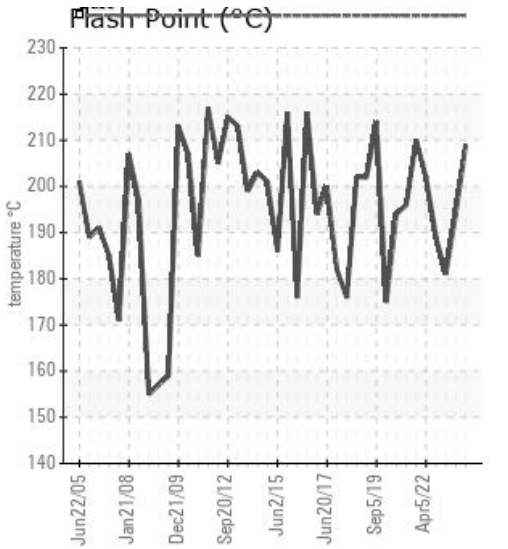
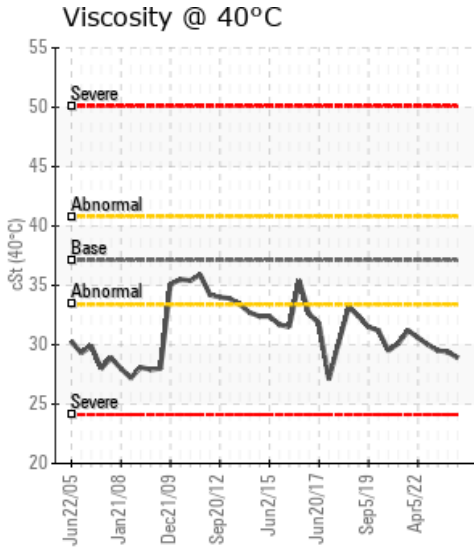
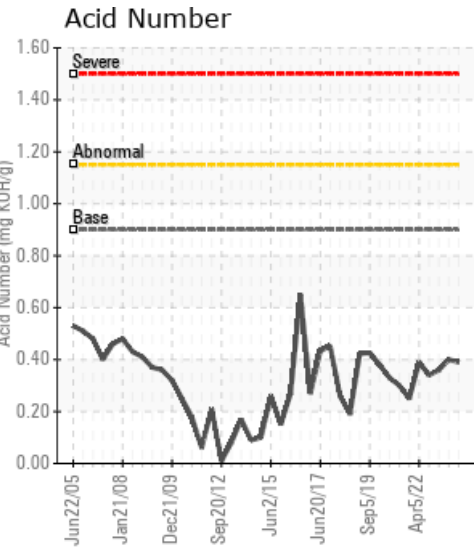
System Information
 System Volume: 10000 ltr
 Bulk Operating Temp: 275F / 135C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID
 Make: RELUTHERM

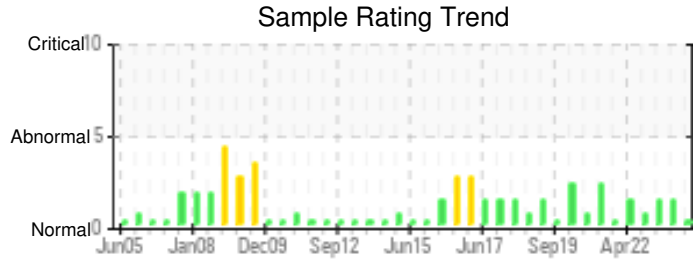
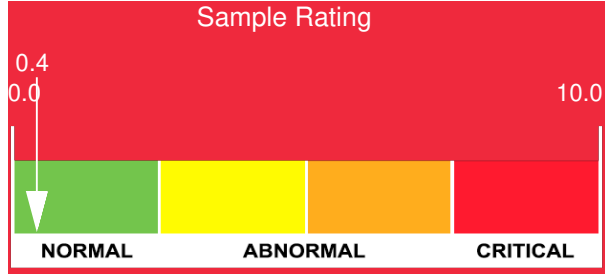
Sample Information
 Lab No: 02627753
 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I
 Sample Date: 04/04/24
 Received Date: 04/09/24
 Completed: 04/15/24
 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: The fluid is suitable for further service. Resample at the next service interval to monitor.

Comments:

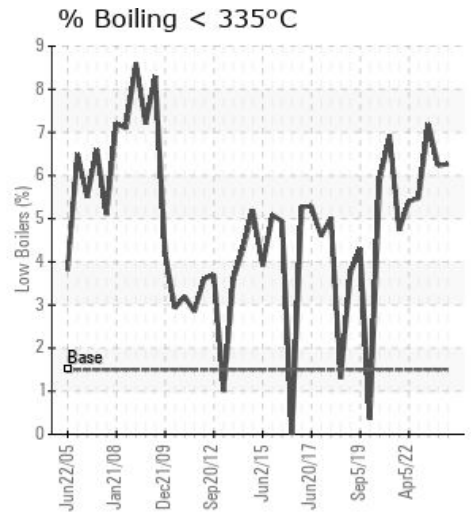
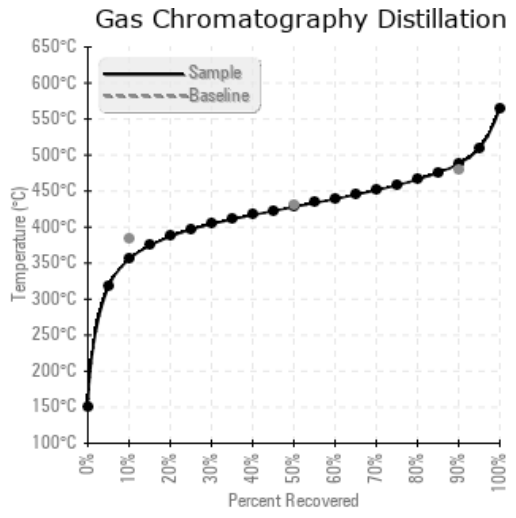
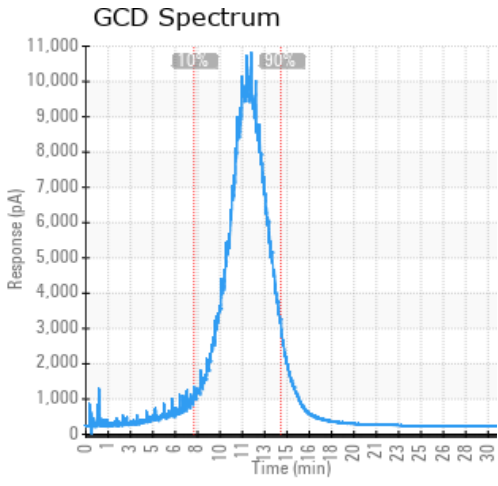
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/04/24	04/09/24	20.8y		408 / 209	11	28.9	0.39	0.067	672 / 356	802 / 428	910 / 488	6.27
09/28/23	10/05/23	20.3y		381 / 194	23.8	29.4	0.40	0.088	671 / 355	805 / 429	915 / 490	6.23
04/25/23	05/01/23	19.8y		358 / 181	19.9	29.5	0.36	0.060	663 / 350	802 / 428	906 / 486	7.19
10/11/22	10/17/22	19.3y		372 / 189	10.6	30.0	0.34	0.360	681 / 360	805 / 429	910 / 488	5.48
04/05/22	04/12/22	18.8y		396 / 202	23.7	30.6	0.39	0.081	681 / 361	808 / 431	917 / 492	5.40
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
04/04/24	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	6
09/28/23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	4
04/25/23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	2
10/11/22	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	2
04/05/22	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	1
Baseline Data			0	0						0			0	0				0	0				230	

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



Historical Comments

09/28/23	The fluid condition is suitable for continued use. Resample in one year to monitor. (GCD) 90% Distillation Point is marginally high. COC Flash Point is marginally low.
04/25/23	We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. The fluid is suitable for further service. We recommend an early resample to monitor this condition. COC Flash Point is abnormally low. (GCD) 10% Distillation Point is marginally low.
10/11/22	COC Flash Point is low. Suggest venting the expansion tank. Resample at next normal interval. COC Flash Point is abnormally low.
04/05/22	The fluid condition is suitable for continued use. Resample in one year to monitor. (GCD) 90% Distillation Point is marginally high. COC Flash Point is marginally low.

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