

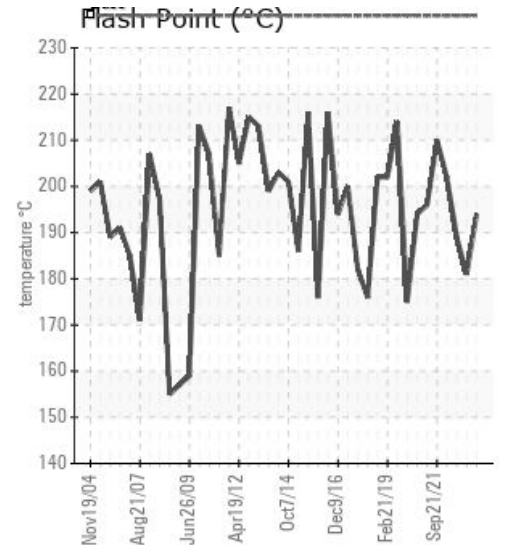
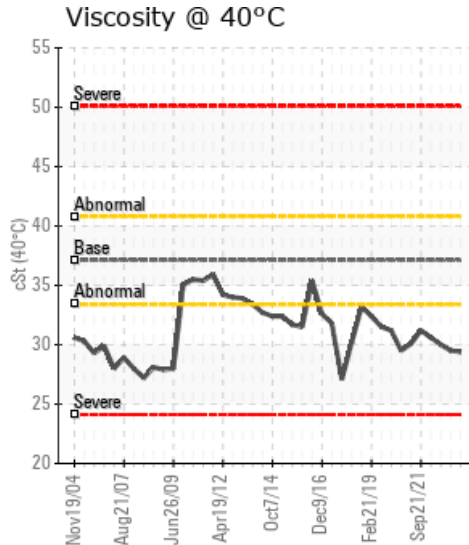
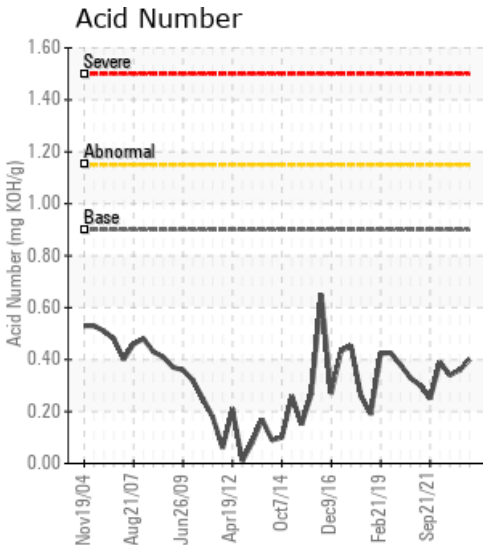
RELUTHERM RTAG-14

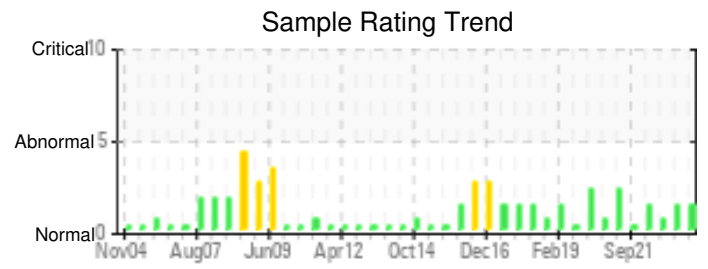
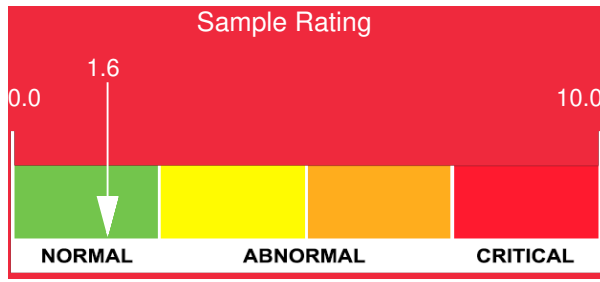
Customer: PTRHTF40043	System Information	Sample Information
MORA PRODUCTIE BV FREGATWEG 53 MAASTRICHT 6222NZ MAASTRICHT, 6222NZ NL Attn: WILBERT SNIJERS Tel: E-Mail: w.snijers@klt.nl	System Volume: 10000 ltr Bulk Operating Temp: 275F / 135C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: RELUTHERM	Lab No: 02587367 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 09/28/23 Received Date: 10/05/23 Completed: 10/13/23 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: The fluid condition is suitable for continued use. Resample in one year to monitor.

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

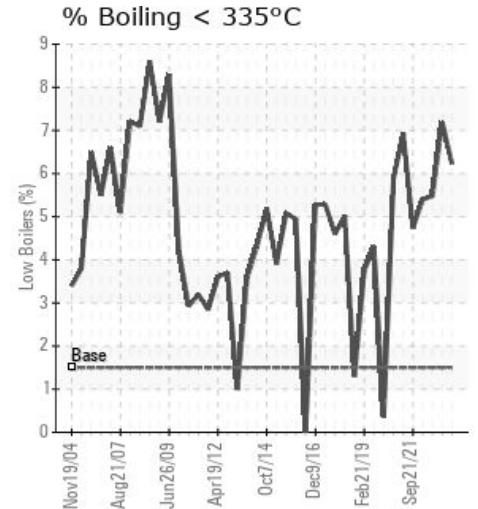
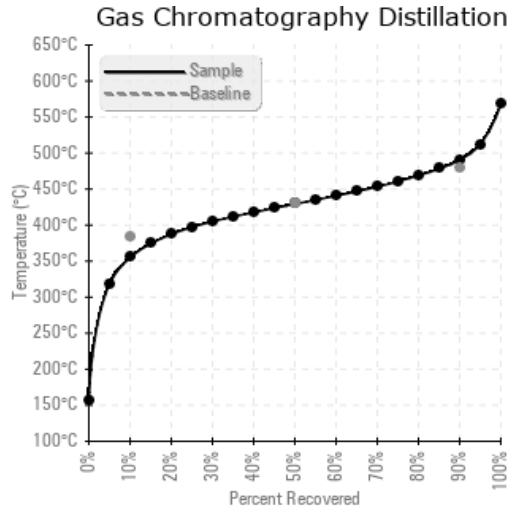
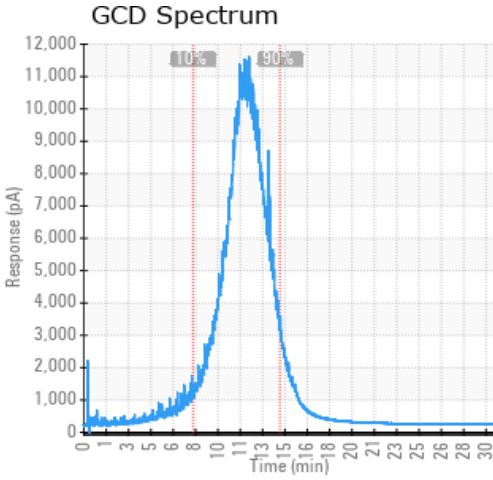
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
09/28/23	10/05/23	20.3y		381 / 194	23.8	29.4	0.40	0.088	671 / 355	805 / 429	915 / 490	6.23
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
09/21/21	09/27/21	18.3y		410 / 210	15.7	31.2	0.25	0.148	685 / 363	805 / 429	908 / 487	4.74
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
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
09/21/21	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	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

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.
09/21/21	All parameter are within normal limits. Oil is fit for further use. Resample at normal interval.

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