

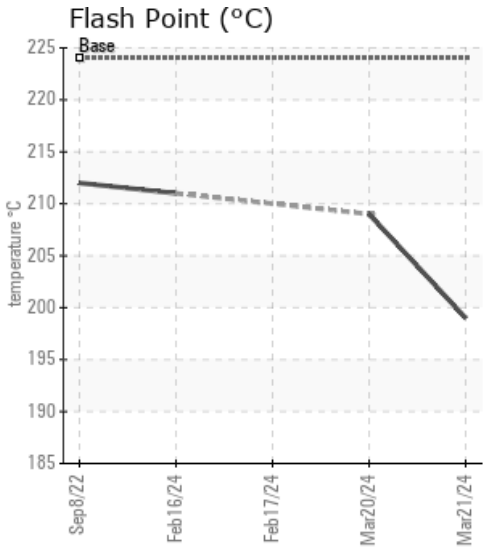
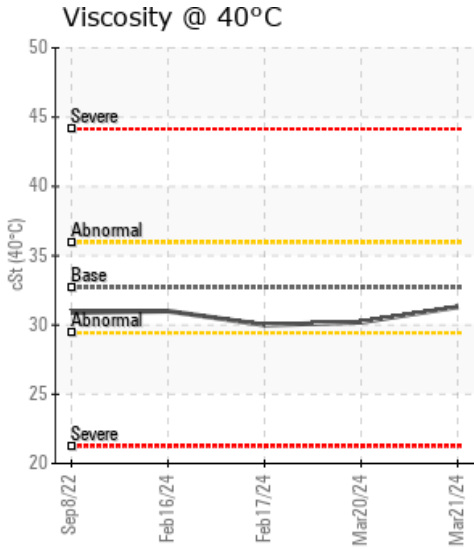
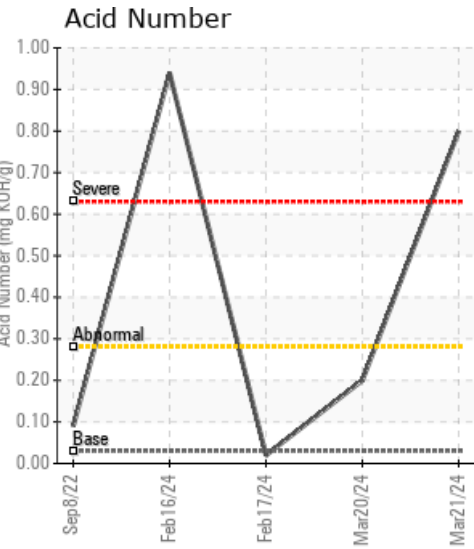
# MASTERGOOD HTF PTNEHAZA

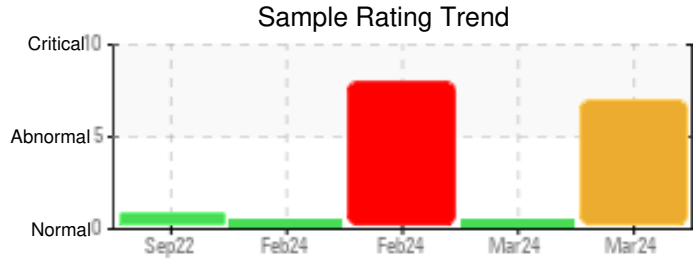
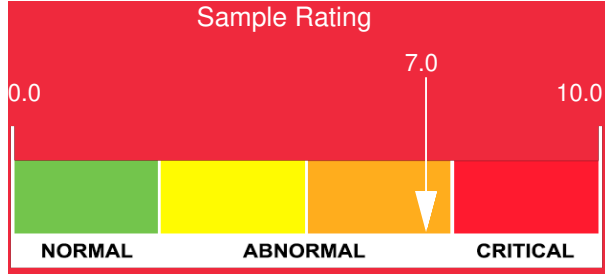
Customer: PTRHTF40137	System Information	Sample Information
PENZZ-IMPEX KFT 1132 Victor Hugo U 11-15 4em Budapest, 1132 HU Attn: Katalin Farkas Tel: 3(630)239-9273 E-Mail: penzz-impex@penzz-impex.hu	System Volume: 0 gal Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: FOOD INDUSTRY	Lab No: 02626258 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 03/21/24 Received Date: 04/02/24 Completed: 04/08/24 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: There is a high amount of insoluble material present in the fluid, and the acid number has increased significantly. Viscosity and flash point are acceptable. Recommend a resample in 6 months time to monitor.

Comments: Iron ppm levels are abnormal. Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high.

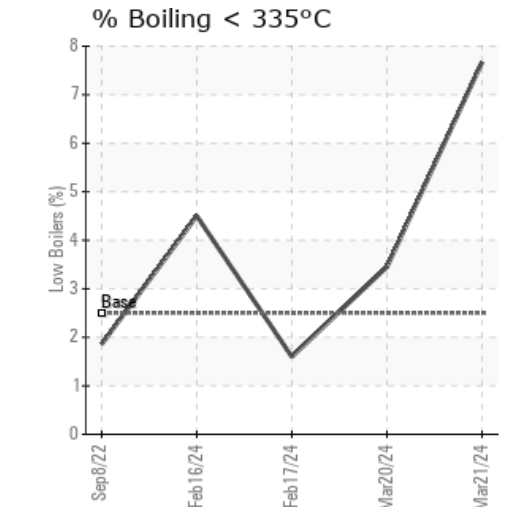
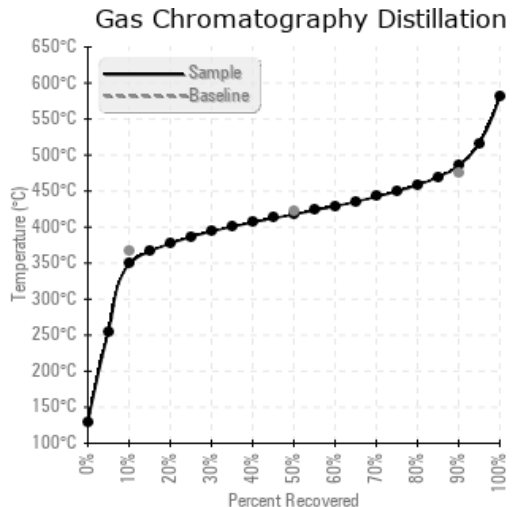
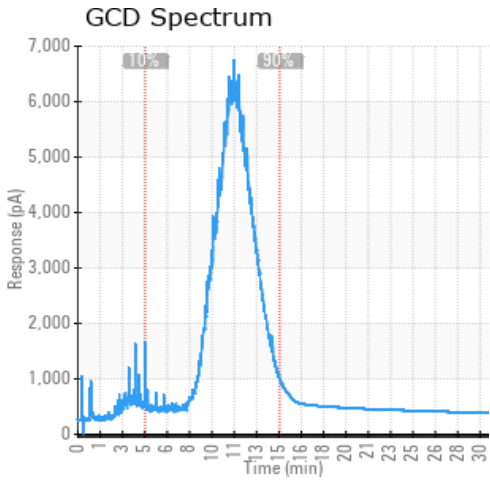
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/21/24	04/02/24	0.0y	sample 2	390 / 199	81	31.3	0.80	2.60	660 / 349	784 / 418	905 / 485	7.67
03/20/24	04/02/24	10.0y	sample 1	408 / 209	11	30.2	0.20	0.371	687 / 364	785 / 418	904 / 485	3.45
02/17/24	02/27/24	9000.0y			596	30.0	0.02	0.123	715 / 379	811 / 433	911 / 488	1.60
02/16/24	02/27/24	30000.0y		412 / 211	6746	31.0	0.94	1.43	687 / 364	804 / 429	937 / 503	4.50
09/08/22	09/23/22	26057.0y		414 / 212	17.4	30.9	0.09	0.008	706 / 374	804 / 429	907 / 486	1.86
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
03/21/24	582	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	6	0	0	0	0	0	138	15
03/20/24	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	1
02/17/24	12	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	97	4
02/16/24	184	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0	0	0	99	4
09/08/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147	0
Baseline Data			0	0						0			0	0					0				270	

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



### Historical Comments

03/20/24	The fluid is suitable for further service. Resample at the next service interval to monitor.
02/17/24	The fluid is suitable for further service. Resample at the next service interval to monitor. *** NOTE: we could not conduct the COC Flash Point test due to the high concentration of free water present in the sample. *** Water contamination levels are marginally high. (GCD) 90% Distillation Point is marginally high.
02/16/24	CAUTION: High water levels in thermal fluids can cause bumping which presents a risk to operators. Ensure that samples are being taken from the correct location. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The high metal levels indicate corrosion in the system. Pentane Insolubles levels are severely high. There is a high concentration of water present in the fluid. (GCD) 90% Distillation Point is severely high. Acid Number (AN) is abnormally high.
09/08/22	The fluid condition is suitable for continued use. Resample in one year to monitor. (GCD) 90% Distillation Point is marginally high.

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