

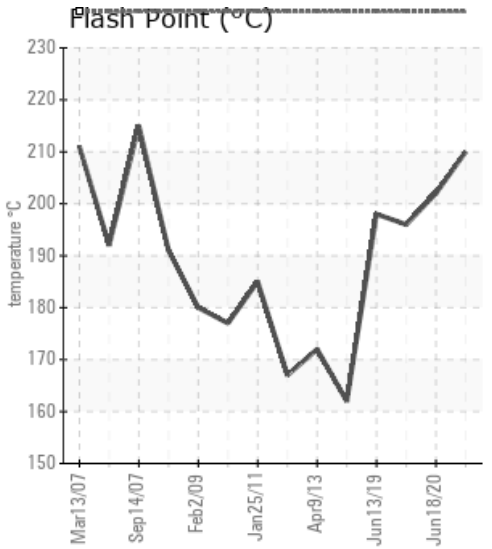
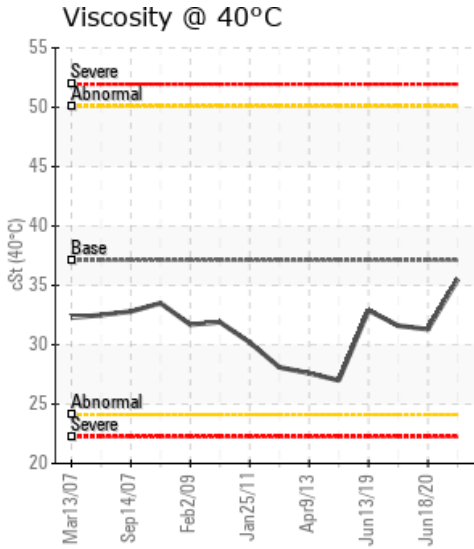
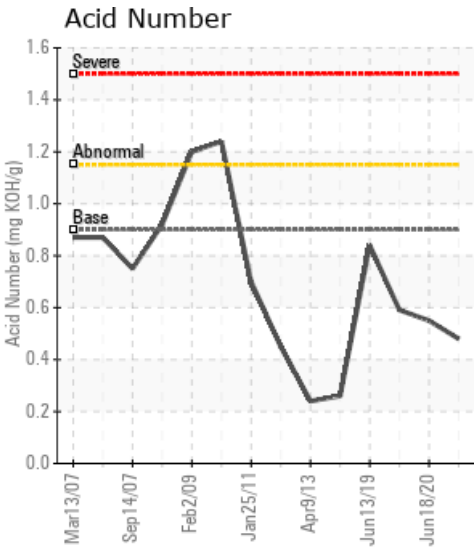
WANSON 450LN - KONUS

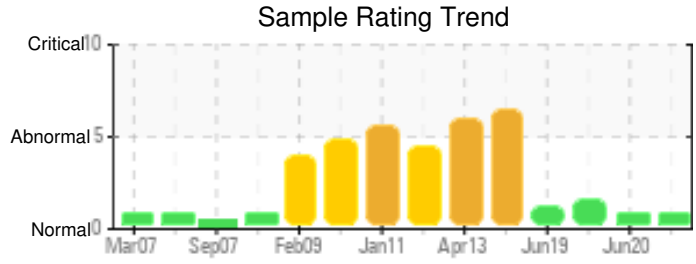
Customer: PTRHTF40042	System Information	Sample Information
MORA NV - MOL BELGIUM BERKENBOSSENLAAN 1 MOL 2400 MOL, 2400 Belgium Attn: WILBERT SNIJERS Tel: E-Mail: w.snijers@klt.nl	System Volume: 1800 ltr Bulk Operating Temp: 265F / 129C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02431918 Analyst: Luis Rodriguez Sample Date: 06/07/21 Received Date: 07/09/21 Completed: 07/26/21 Luis Rodriguez luis.rodriguez@hollyfrontier.com

Recommendation: Time on the oil is not mentioned. Although some low and high boilers are visible the oil resisted thermal cracking very well and is fit for further use. Please resample in 12 months.

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

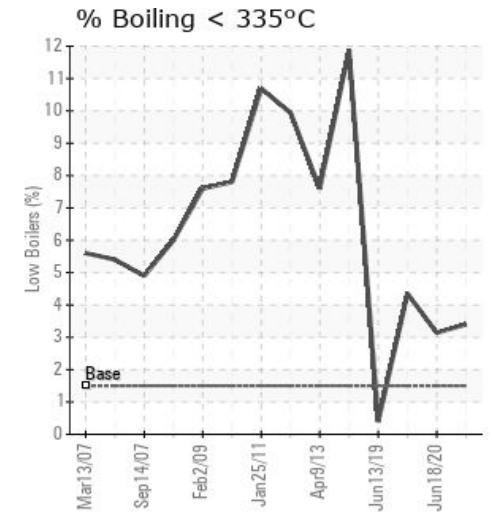
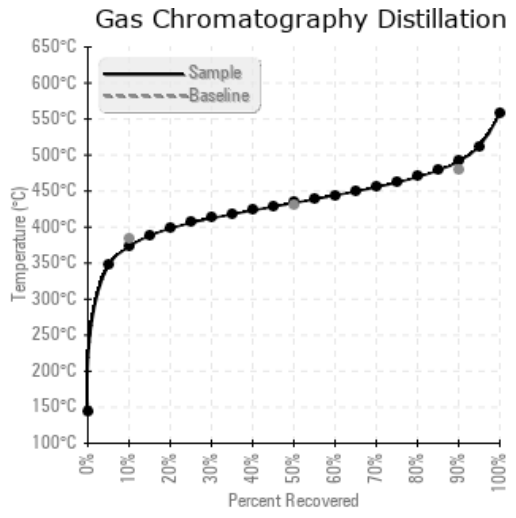
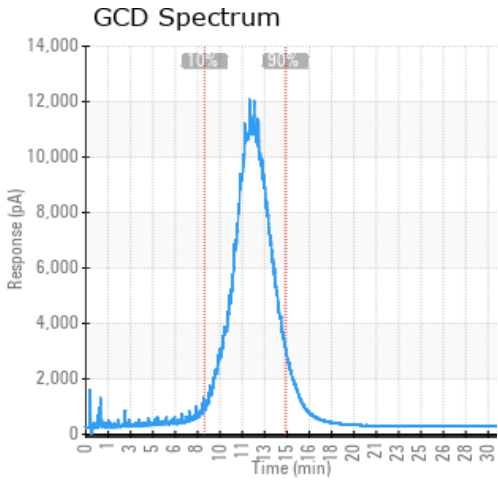
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/07/21	07/09/21	0.0m		410 / 210	10.5	35.5	0.48	0.205	703 / 373	812 / 434	916 / 491	3.40
06/18/20	06/26/20	12.0m		396 / 202	8.8	31.3	0.55	0.137	703 / 373	809 / 432	910 / 488	3.14
12/03/19	12/10/19	0.5m		385 / 196	13.5	31.6	0.591	0.157	696 / 369	811 / 433	927 / 497	4.35
06/13/19	06/18/19	0.0m		388 / 198	35.7	32.9	0.840	0.121	694 / 368	784 / 418	880 / 471	0.40
02/18/14	02/21/14	7.0m	PTRHTF40042	324 / 162	133.1	27.0	0.26	1.21	603 / 317	798 / 426	910 / 488	11.87
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
06/07/21	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	59	0
06/18/20	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	19	0
12/03/19	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	40	0
06/13/19	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	159	0
02/18/14	164	0	0	0	0	5	0	0	0	0	2	1	0	0	0	0	1	0	0	0	1	0	97	0
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

06/18/20	
12/03/19	Is the time recorded on the oil at 2m correct? All parameters on the fluid test to spec except for GCD Dist at 90% and COC which are marginally out of normal range. Not areas for concern, fluid fit for further use and please resample in 12 months (GCD) 90% Distillation Point is abnormally high. COC Flash Point is marginally low.
06/13/19	Levels of Calcium and Phosphorus are unusual and high. COuld there be remnants of a cleaning agent or similar on change? All other parameters look to be in normal range with slightly low flash but nothing of concern. Fit for further use Calcium ppm levels are abnormally high. COC Flash Point is marginally low.
02/18/14	Oil should be changed at customers first opportunity. Pentane Insolubles levels are severely high. (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is abnormally high. COC Flash Point is abnormally low.

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