

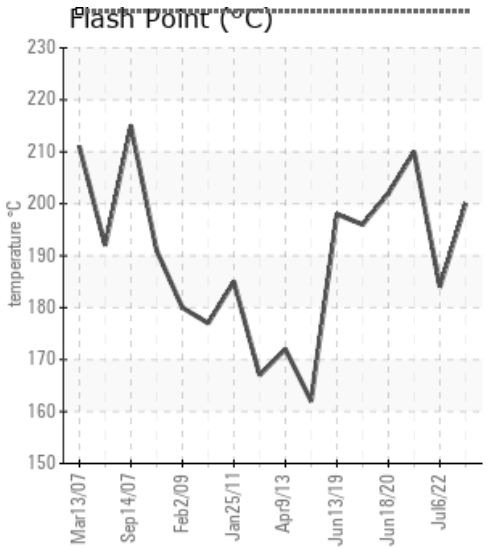
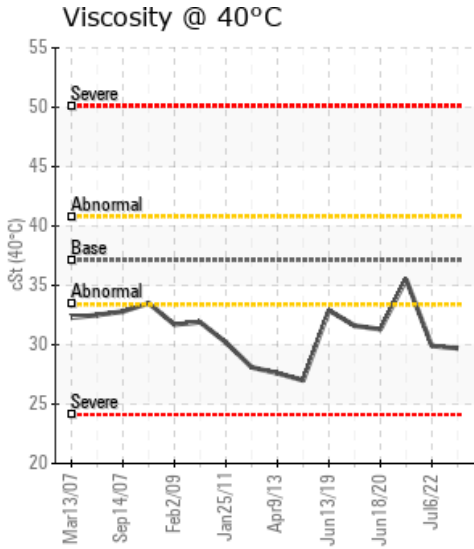
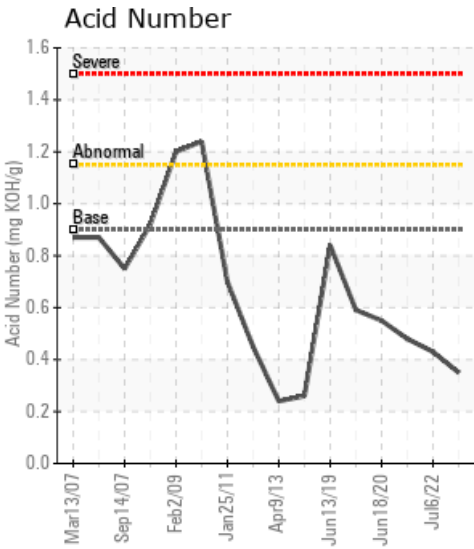
# WANSON 450LN - KONUS

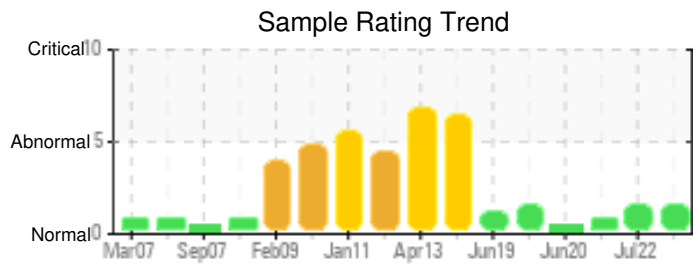
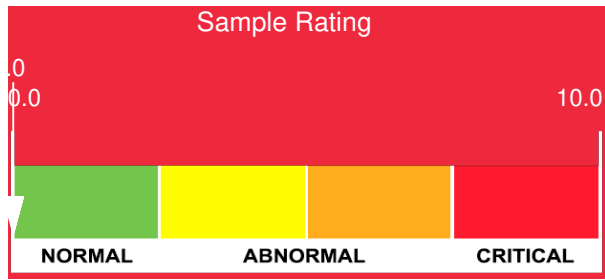
Customer: PTRHTF40042	System Information	Sample Information
MORA NV - MOL BELGIUM BERKENBOSSENLAAN 1 MOL 2400 MOL, 2400 BE Attn: WILBERT SNIJERS Tel: E-Mail: w.snijers@klt.nl	System Volume: 1800 ltr Bulk Operating Temp: 265F / 129C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02583335 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 09/12/23 Received Date: 09/18/23 Completed: 09/21/23 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: We recommend that you continue to vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. Resample at the next service interval to monitor.

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

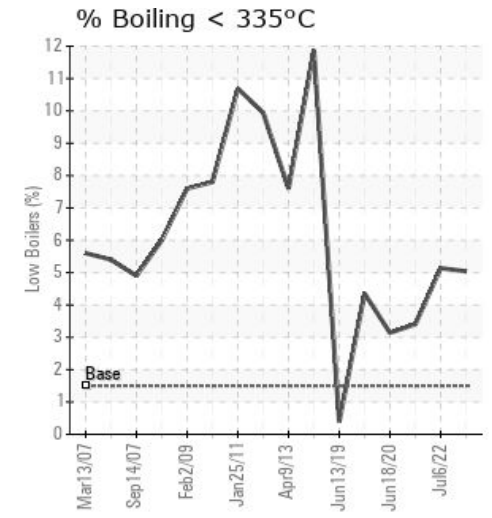
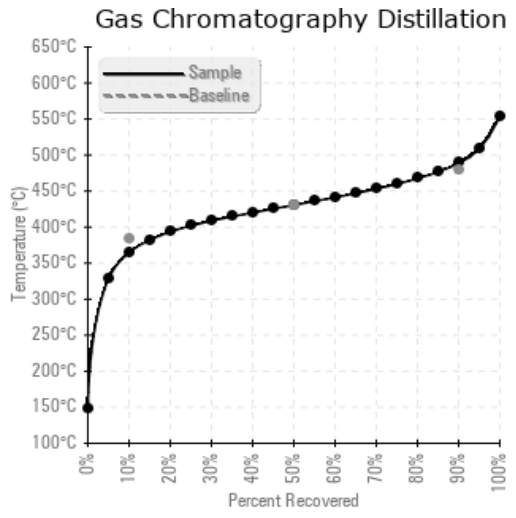
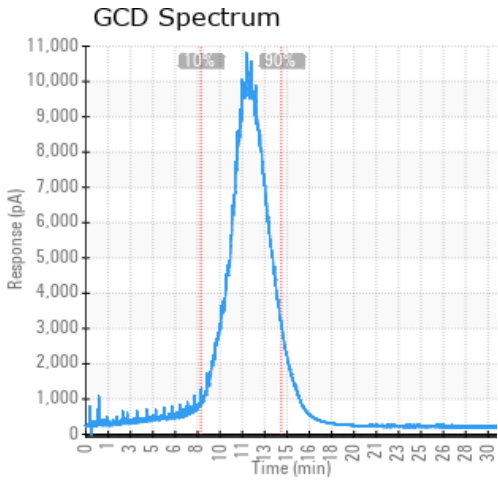
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
09/12/23	09/18/23	48.0m		392 / 200	23.5	29.7	0.35	0.169	689 / 365	807 / 431	912 / 489	5.04
07/06/22	07/11/22	36.0m		363 / 184	24.5	29.9	0.43	0.500	687 / 364	806 / 430	908 / 487	5.14
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
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
09/12/23	48	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17	0	65	2
07/06/22	64	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	22	0	73	1
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
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

07/06/22	COC Flash Point is low, consider venting the low boilers from the expansion tank. Resample in one (1) year to monitor. Pentane Insolubles levels are abnormally high. COC Flash Point is abnormally low.
06/07/21	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. (GCD) 90% Distillation Point is marginally high.
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.

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