

WANSON 450LN - KONUS

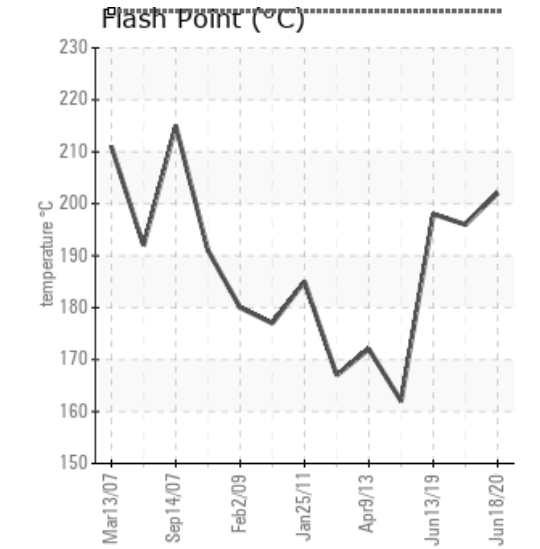
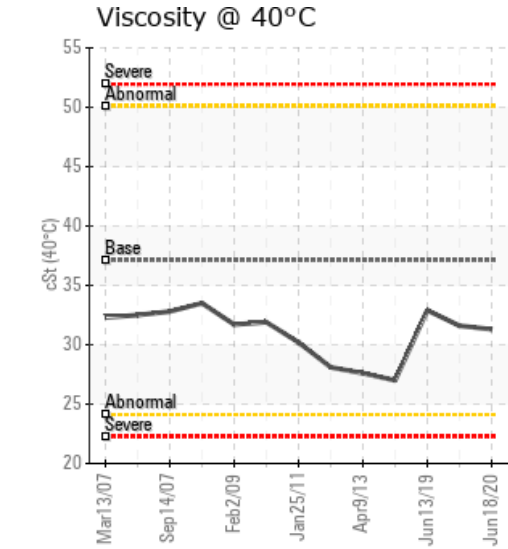
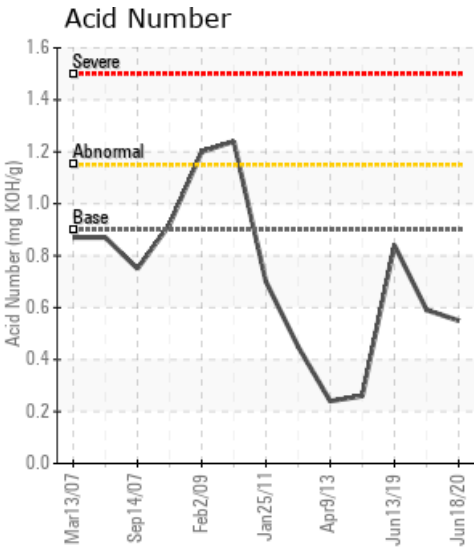
Customer: PTRHTF40042
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 MOL, 2400 Belgium
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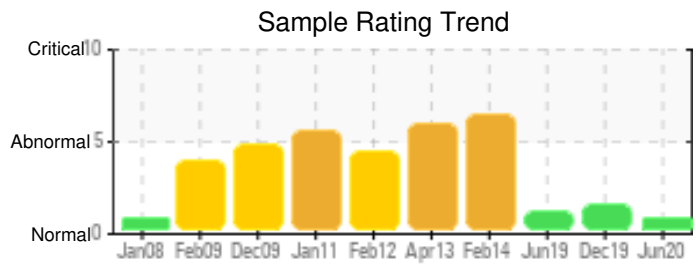
System Information
 System Volume: 1800 ltr
 Bulk Operating Temp: 265F / 129C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID
 Make: WANSON

Sample Information
 Lab No: 02361862
 Analyst: Matthias Voss
 Sample Date: 06/18/20
 Received Date: 06/26/20
 Completed: 06/29/20
 Matthias Voss
 Matthias.Voss@petrocanadalsp.com

Recommendation:
 Comments:

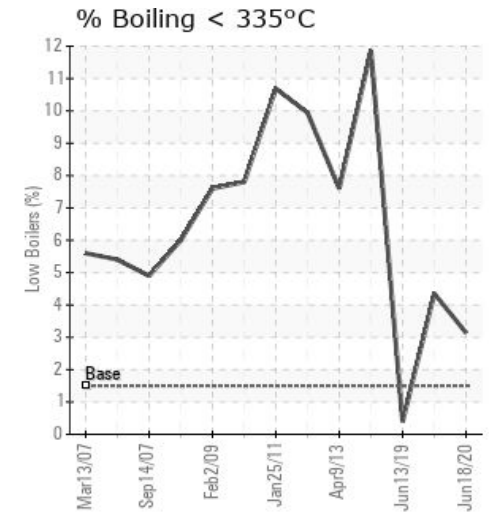
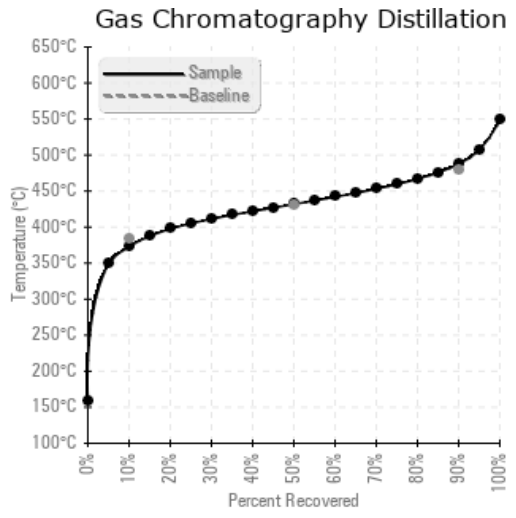
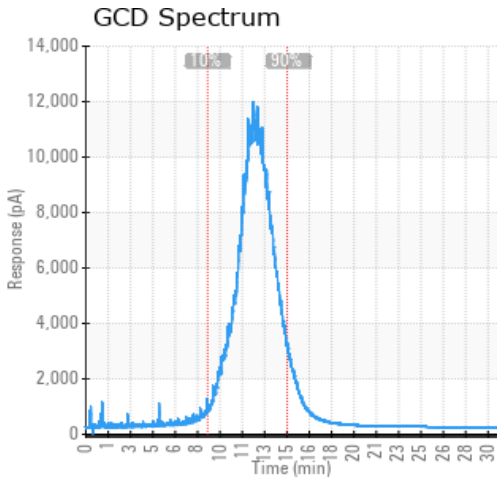
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/18/20	06/26/20	12m		396 / 202	8.8	31.3	0.55	0.137	703 / 373	809 / 432	910 / 488	3.14
12/03/19	12/10/19	1m		385 / 196	13.5	31.6	0.591	0.157	696 / 369	811 / 433	927 / 497	4.35
06/13/19	06/18/19	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	7m	PTRHTF40042	324 / 162	133.1	27.0	0.26	1.21	603 / 317	798 / 426	910 / 488	11.87
04/09/13	04/15/13	6m		342 / 172	43.6	27.6	0.24	0.612	652 / 344	788 / 420	889 / 476	7.60
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
06/18/20	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
04/09/13	88	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	73	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	
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.
04/09/13	Iron ppm levels are noted. Pentane Insolubles levels are severely high. (GCD) 90% Distillation Point is low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low. COC Flash Point is marginally low.

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