

WANSON 800LN

Customer: PTRHTF40108
 WILTHAGEN VLEESWAREN
 ENERGIE WEG 1
 THOLEN, 4691SE Netherlands
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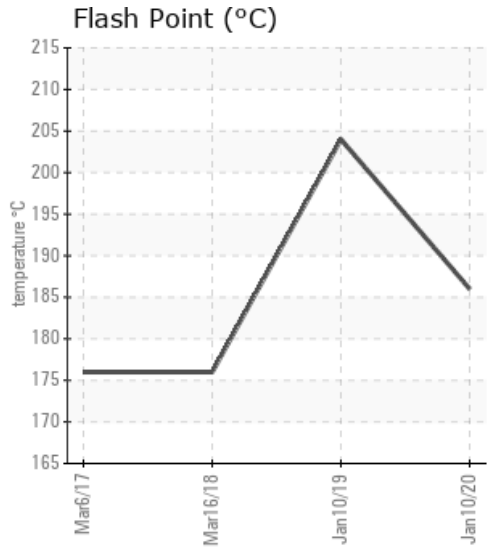
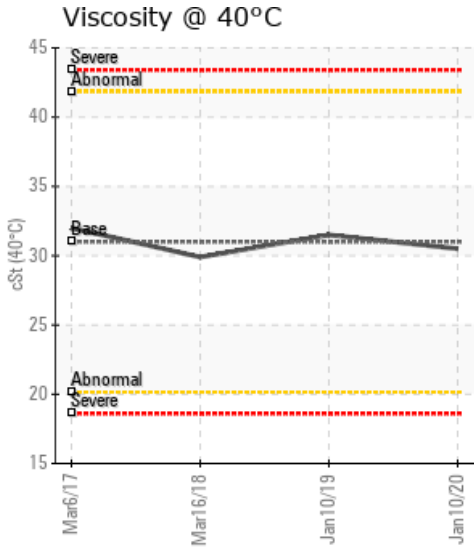
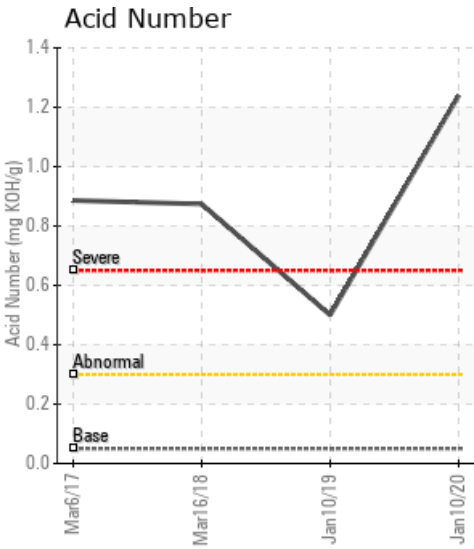
System Information
 System Volume: 1600 ltr
 Bulk Operating Temp: 410F / 210C
 Heating Source:
 Blanket:
 Fluid: BP TRANSCAL N
 Make: WANSON

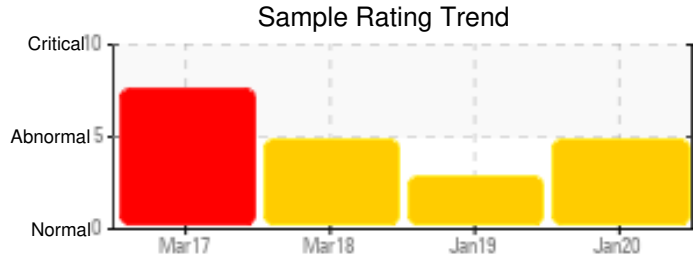
Sample Information
 Lab No: 02332804
 Analyst: Philip Riley
 Sample Date: 01/10/20
 Received Date: 01/20/20
 Completed: 01/26/20
 Philip Riley
 philip.riley@petrocanadalsp.com

Recommendation: Please note this is not a Petro-Canada Fluid therefore no comments regarding product chemistry can be made. However, in general there looks to be degradation, rising Acid number and increased insoluble matter all backing this up. Shape of the curve shows some cracking and would be vigilant to look to change the fluid to Petro-Canada product, including a clean and flush

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. COC Flash Point is marginally low.

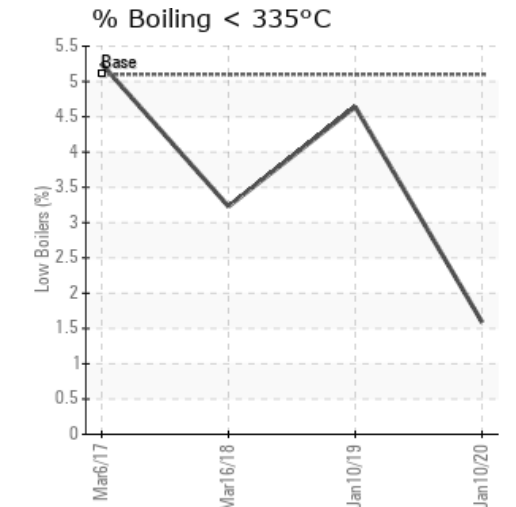
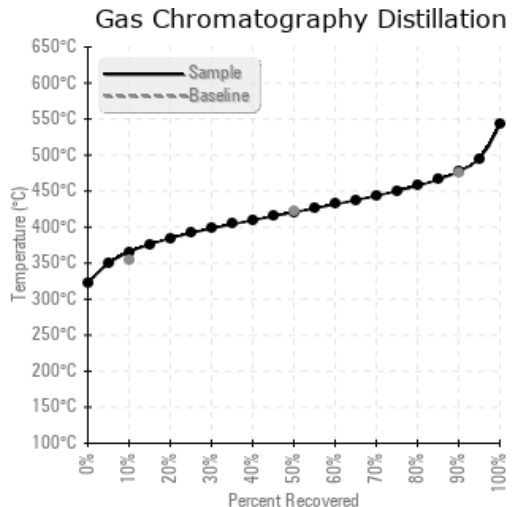
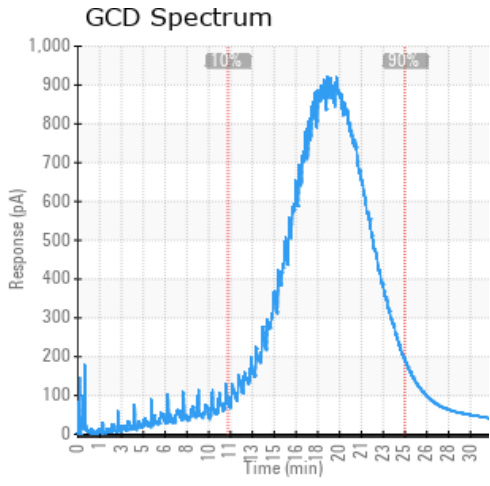
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/10/20	01/20/20	11y		367 / 186	27.2	30.5	1.24	0.658	689 / 365	789 / 421	891 / 477	1.59
01/10/19	01/25/19	10y		399 / 204	53.1	31.5	0.50	1.11	672 / 355	785 / 419	893 / 478	4.64
03/16/18	03/22/18	9y		349 / 176	10.4	29.9	0.874	0.443	688 / 364	803 / 428	905 / 485	3.23
03/06/17	03/10/17	8y		349 / 176	70.0	32.0	0.886	1.66	681 / 361	810 / 432	926 / 497	5.25
Baseline Data				430 / 221		31.0	0.05		669 / 354	792 / 422	887 / 475	5.1





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
01/10/20	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/10/19	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
03/16/18	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/06/17	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Baseline Data			0	0						0			0	0					0				0	

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



Historical Comments

01/10/19	Not P-C product therefore cannot give informed recommendations Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high.
03/16/18	The fluid is degraded and the oil change is recommended. Because insoluble are high, it is recommended to inspect the system in case cleaning is needed. Pentane insoluble and TAN are too high indicating fluid degradation. Flash point is too low. Pentane Insolubles levels are abnormally high. Acid Number (AN) is severely high. COC Flash Point is abnormally low.
03/06/17	Not a Petro-Canada Oil. Ranking is not good. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is severely high. COC Flash Point is abnormally low.

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