

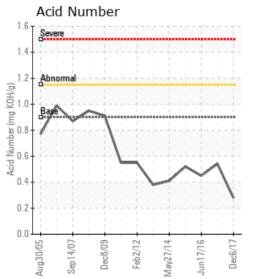
## WANSON 450LN

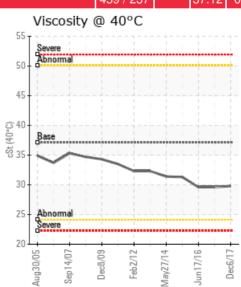
Customer: PTRHTF40045	System Information	Sample Information
OVI NV SA	System Volume: 4000 ltr	Lab No: 02222960
HOOGBUUL 1	Bulk Operating Temp: 270F / 132C	Analyst: Philip Riley
OLEN 2250	Heating Source:	Sample Date: 12/06/17
OLEN, 2250 Norway	Blanket:	Received Date: 06/19/18
Attn: WILBERT SNIJERS	Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID	Completed: 06/25/18
Tel:	Make: WANSON	To discuss this report contact Philip Riley
E-Mail: w.snijers@klt.nl		at (440)124-4378171

Recommendation: Flash Point (COC) is very low. Recommend, if safe procedure to do so, the system is vented to release any light molecules which should raise the COC Flash Point. GCD shows high levels of light molecules which explains low flash point. If flash point cannot be recovered, recommend oil change and flush

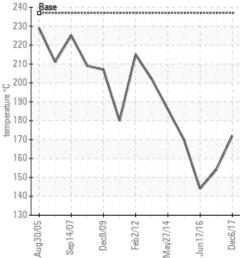
Comments: COC Flash Point is severely low.

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	%
12/06/17	06/19/18	13y		342 / 172	13.0	29.8	0.28	0.073	676 / 358	802 / 428	905 / 485	6.17
06/20/17	06/26/17	12y		309 / 154	74.5	29.6	0.541	0.084	685 / 363	813 / 434	925 / 496	5.57
06/17/16	06/27/16	11y		291 / 144	49.4	29.6	0.45	0.102	695 / 369	819 / 437	911 / 489	4.97
06/02/15	06/05/15	10y		338 / 170	38.4	31.3	0.52	0.034	706 / 374	820 / 438	913 / 490	3.87
05/27/14	05/30/14	9y		367 / 186	75.1	31.4	0.41	0.072	696 / 369	811 / 433	906 / 486	4.45
04/09/13	04/15/13	8y		396 / 202	202.4	32.3	0.38	0.058	710 / 377	814 / 435	910 / 488	3.06
		Baseline	Data	459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5

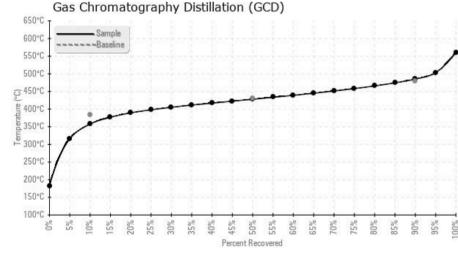




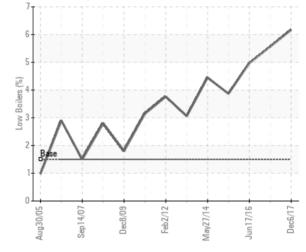
Flash Point (°C)







% Boiling < 335°C



## **Historical Comments**

06/20/17	There are some low boilers present. Remove the low boilers if possible. Oil is fit for further service suggest sample at next scheduled maintenance interval. COC Flash Point is severely low. (GCD) 90% Distillation Point is abnormally high.
06/17/16	COC Flash Point tested twice: 132°C and 144°C. Oil is fit for further service - however low boilers are present and efforts should be taken to remove the low boilers or consider replacing the fluid in the near future. COC Flash Point is severely low. (GCD) 90% Distillation Point is marginally high.
06/02/15	Oil appears to be in good condition at this time. Iron levels are under control. Sample at next scheduled maintenance interval. COC Flash Point is marginally low.
05/27/14	There are a few low boilers present - try to remove low boilers if possible.Oil is fit for further service.Sample at next scheduled maintenance interval.
04/09/13	Oil is fit for further service (GCD) 90% Distillation Point is marginally low.

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