

[THAILAND] CARGILL SUPPLY AND RETURN

Customer: PTRHTF60010

SYNLUBE INTERNATIONAL CO LTD

76/1 MOO.7 THACHIN

MUANG SAMUTSAKHON, 74000

THAILAND

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System Information

System Volume: 11275 ltr

Bulk Operating Temp: 554F / 290C

CRITICAL

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: WANSON

Sample Information

Lab No: 02364501 Analyst: Philip Riley Sample Date: 07/03/20 Received Date: 07/14/20 Completed: 07/16/20

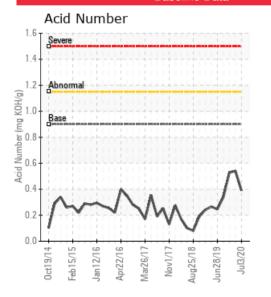
Philip Riley

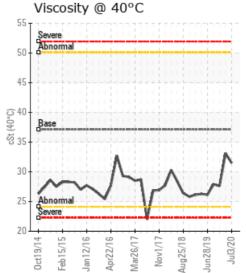
philip.riley@petrocanadalsp.com

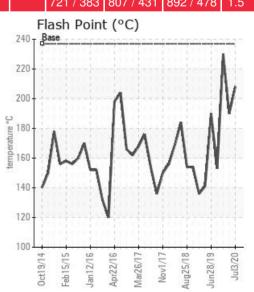
Recommendation: Fluid meets all criteria as expected and fit for further use. Please sample again at normal frequency

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	%
07/03/20	07/14/20	6m		406 / 208	9.6	31.5	0.39	0.044	717 / 380	813 / 434	904 / 485	2.60
04/06/20	04/14/20	3m	SUPPLY AND RETURN	374 / 190	13.0	33.1	0.54	0.181	727 / 386	814 / 434	902 / 484	0.64
01/14/20	01/30/20	10m		446 / 230	0.2	27.6	0.529	0.077	734 / 390	802 / 428	892 / 478	0.00
10/12/19	10/25/19	42m	SUPPLY/RETURN	307 / 153	13.3	27.9	0.340	0.086	666 / 352	788 / 420	883 / 473	6.73
06/28/19	07/11/19	38m		374 / 190	28.8	26.1	0.246	0.038	673 / 356	795 / 424	886 / 475	6.32
Baseline Data				459 / 237		37 12	n 9n		721 / 383	807 / 431	892 / 478	15

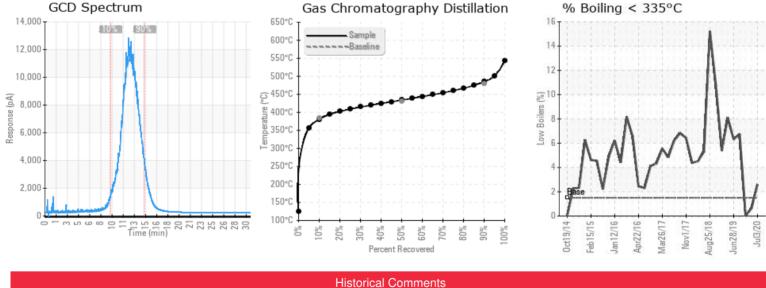








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



All parameters test to specification with the exception of the COC Flash Pt which is marginally low. The fluid remains suitable for operation, but recommend safe venting if possible to remove the low boiling point molecules. Please re-sample after normal frequency COC Flash Point is abnormally low.

Oil tests to spec and all parameters as expected. Fit for further use and re-sample at normal frequency

Strong evidence of cracking indicated by the lowering viscosity and the low flash point. This looks to have been recovered in the past and if safe to do so the system must be vented. Distillation points remain mainly in line with fresh fluid. Please vent the system and take another sample to check how the system has recovered from removal of the light end molecules COC Flash Point is severely low. (GCD) 10% Distillation Point is marginally low.

The current fluid has normal distillation points. The acid number and solid content are all normal. The current fluid is suitable for operation. Please do the system venting as one of the routine maintenance activities to release the low boiler. Please take one sample in 6 months to monitor the conditions.

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