

## [THAILAND] CARGILL 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

**Heating Source:** 

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: WANSON

## Sample Information

Lab No: 02386375 Analyst: Philip Riley Sample Date: 10/27/20 Received Date: 11/10/20 Completed: 11/17/20

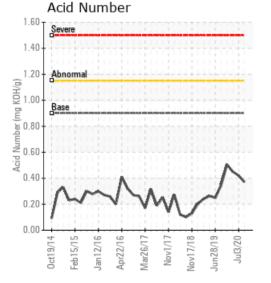
Philip Riley

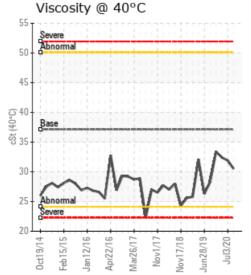
philip.riley@petrocanadalsp.com

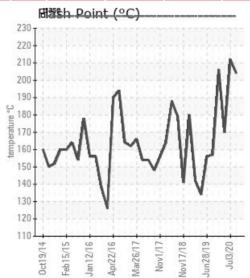
Recommendation: All parameters within normal and expected limits, no concern regarding fluid condition. Fluid fit for further use, please re-sample at normal frequency

Comments: COC Flash Point is marginally low.



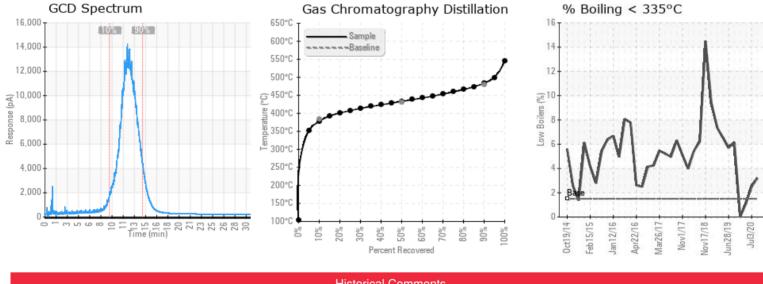








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



| Historical Comments |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07/03/20            | All parameters within acceptable limits. Fluid fit for further use. Please re-sample at normal frequency                                                                                                                                                                                                                                                                                                                                  |
| 04/06/20            | All parameters remain in specification except for the low COC Flash Pt. This has seen lower values in the past but it is important to safely vent the system to remove the low boiling point molecules. Recommend to re-sample in 3 months to check the system after venting. COC Flash Point is severely low.                                                                                                                            |
| 01/14/20            | Flash point (COC) slightly low but within reasonable boundaries. If safe venting can take place to recover then look towards this after next analysis if it continues to reduce but currently fit for further use. All other parameters meet spec. Please re-sample at normal interval COC Flash Point is marginally low.                                                                                                                 |
| 10/12/19            | COC very low and evidence of thermal cracking of the oil, with a history in this application. Viscosity has recovered slightly from last sample and COC Flash Pt is almost identical. Please look to further vent this system (if safe) and see if flash point can be recovered also. Distillation properties in line with expectation. Please sample following venting and check on recovery of the oil COC Flash Point is severely low. |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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