

# **KAONA FUTHER 4**

# Customer: PTRHTF60010

SYNLUBE INTERNATIONAL CO LTD 76/1 MOO.7 THACHIN

MUANG SAMUTSAKHON, 74000 TH

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# System Information

System Volume: 4400 ltr

Bulk Operating Temp: 545F / 285C

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make:

#### Sample Information

Lab No: 02619421

Analyst: Bill Quesnel CLS, OMA II, MLA-

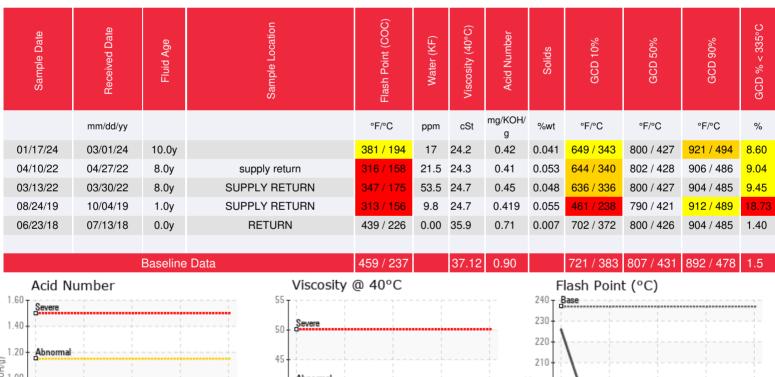
III,LLA-I

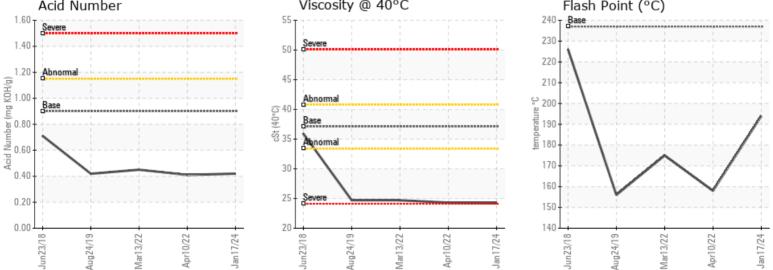
Sample Date: 01/17/24 Received Date: 03/01/24 Completed: 03/06/24

Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: We recommend that you continue to vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. The fluid is suitable for further service. We recommend an early resample to monitor this condition.

Comments: (GCD) 90% Distillation Point is abnormally high. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low. COC Flash Point is marginally low.







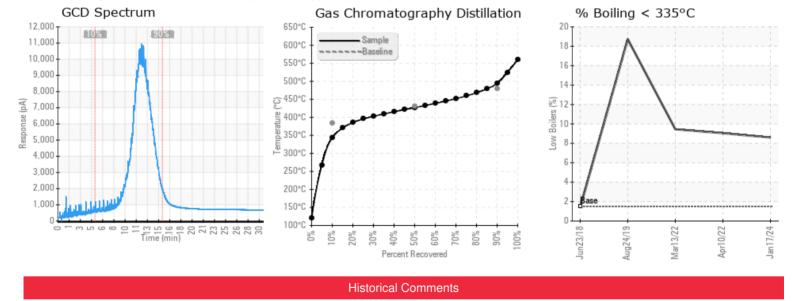
Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

04/10/22

03/13/22

08/24/19

06/23/18



GCD analysis indicates light ends present in the fluid. Recommend venting the expansion tank to removal any volatiles present in the fluid to restore the flash point of the fluid. Resample at the next service interval to monitor. COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high. The condition of the fluid is acceptable for the time in service.

Has this oil been changed since the previous sample? If so, was there a clean and flush? The previous sample was worse in terms of flash point, evidence of cracking, GCD distillation points, low viscosity. However, the current situation the above mentioned physical characteristics remain off spec and of potential consequence. Please feedback what has happened with this fluid, if it was changed then the change probably had no clean and flush and there is carryover from previous fluid. If the fluid was vented to recover flash point for example, it has partially done this, but you need to look to change this fluid with a clean and flush COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.

Sample rating very poor. Viscosity loss, flash point extremely low, evidence of fluid cracking on GC Distillation. Recommend a fluid change and resample following the change. Please inspect system and consider a clean and flush (GCD) % < 335°C is severely high. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. (GCD) 90% Distillation Point is marginally high.

The current fluid has a normal viscosity, flash point, and distillation points. There is minimum solids or water in the fluid. Please continue to run the fluid and take a sample in 12 months.

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