

LINE 7 HOT OIL SYSTEM

Customer: PTRHTF10094

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System Information

System Volume: 375 gal

Bulk Operating Temp: 519F / 271C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make:

Sample Information

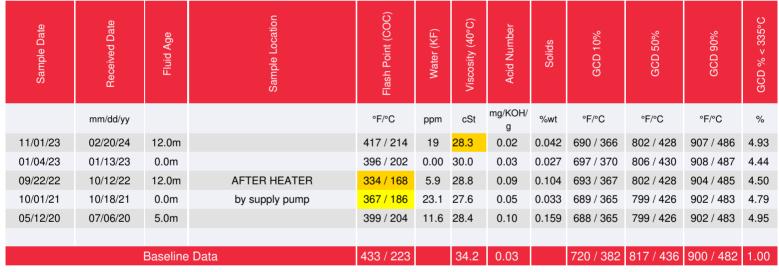
Lab No: 02616806 Analyst: Manny Garcia Sample Date: 11/01/23 Received Date: 02/20/24 Completed: 03/05/24

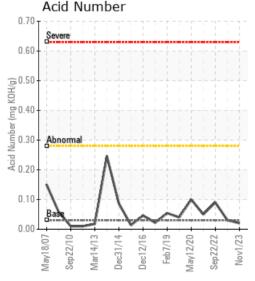
Manny Garcia

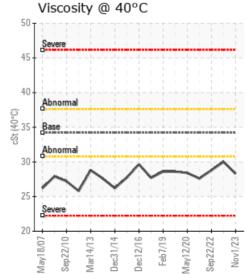
manuel.garcia@HFSinclair.com

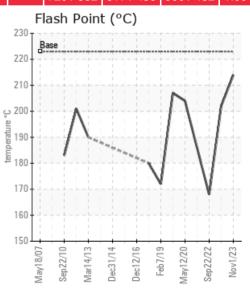
Recommendation: Fluid is suitable for continued use, please re-submit sample in Fall, 2024.

Comments: Viscosity of this fluid in on the low side of an ISO 32, but nothing alarming for this fluid in this system. Wear metals/contamination are nil. Water ppm is very acceptable at 19. Acid number has dropped to a .02 which is satisfactory. COC Flash point has increased from 202 to 214oC which is a solid range to be in. Pentane insolubles are at levels of .042 which is satisfactory. Appearance of the fluid sample is also satisfactory.



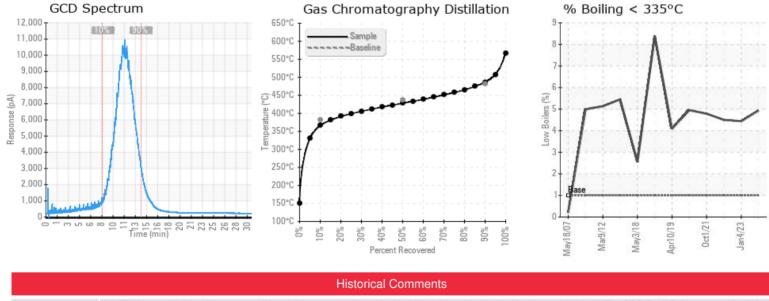








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments	
01/04/23	This Fluid system is in 'satisfactory' condition & the next annual sample should be taken and submitted by January 4th, 2024. The COC Flash Point was marginally low on the last sample taken on 9/22/22 & recommendations were made to mitigate this issue by 'venting' the system. Whatever maintenance practices were completed in the 4th quarter 2022, worked well as the COC Flash Point improved to 202oC and is 'satisfactory'. The other fluid parameters are in satisfactory conditions also.
09/22/22	Recommendation to 'vent' this system to mitigate the low COC flash point value and re-submit sample to verify increase in value. This fluid has a lower than expected COC Flash Point for a 12-month old fluid. We recommend 'venting' the system to correct this 168oC flash point in order to improve it to the 200oC or better range. All of the other parameters are in above satisfactory limits.
10/01/21	Oil is suitable for continued use. Recommend next sample be submitted in October 2022.COC Flash point is down 18oC to 186 oC & should be monitored closely.
05/12/20	Virtually no change to the fluid in the last year. Viscosity is stable, flash point remains strong, no asphalt or moisture contamination. No action required based on these results.

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