

VOLCANIC HOT OIL HEATER MIDDLE

Customer: PTRHTF10039

Piedmont Chemical Industries

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System Information

System Volume: 1000 gal

Bulk Operating Temp: 536F / 280C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: VOLCANIC

Sample Information

Lab No: 02539375 Analyst: Manny Garcia Sample Date: 02/06/23 Received Date: 02/14/23 Completed: 02/16/23

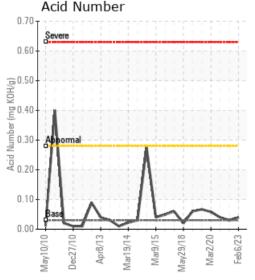
Manny Garcia

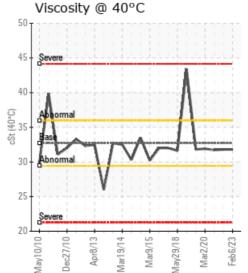
manuel.garcia@HFSinclair.com

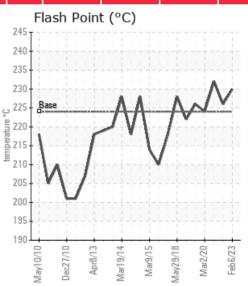
Recommendation: Oil condition is very good, but the high distillation point for 90% can be mitigated by 'venting' the system.

Comments: 90% Distillation point is higher than expected.



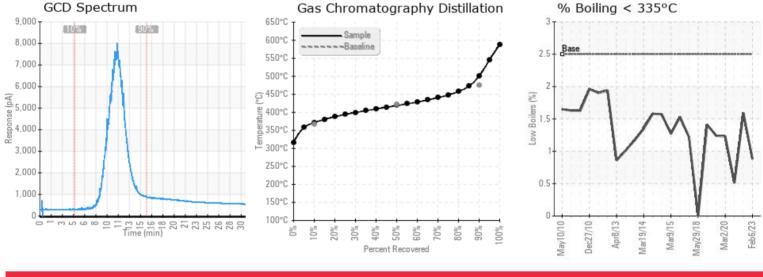








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments	
03/07/22	Satisfactory fluid sample results. Fluid is suitable for continued use. Please schedule next oil sample for March of 2023Viscosity of the oil is perfect, contamination low and the distillation points in check. Very light debris noticed in the sample of fluid and changing system filters (if any) is recommended and potentially cleaning the fluid with an on-line oil filtration system (kidney loop).
03/01/21	Fluid is suitable for continued use. Filtration of the fluid during a safe down day will mitigate any debris seen in the oil sample. Recommend change any system filters if any. Please schedule to re-submit a fluid sample in March 2022.(GCD) 90% Distillation Point has improved over last year's value. Very Light Debris found in the sample
03/02/20	Oil is suitable for continued use. Please re-submit sample in March 2021(GCD) 90% Distillation Point is abnormally high. 'Venting' the system is highly recommended to bring this value back in check. Very Light White metal and Silt has been detected in the fluid. Fluid system filtration is recommended and change-out of any filters at this time to maintain cleanliness.
03/02/20	Oil is suitable for continued use. 'Venting' the system and filtration of the oil will assist in extending the use of the fluid and maintaining and efficient heat transfer system(GCD) 90% Distillation Point is abnormally high & 'venting' of the system is recommended to mitigate this issue. Very light Silt & Debris found in the fluid - filtration during a 'safe' time is highly recommended. Any system filters should be changed at this time.

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