

## [3-26-33-6W5] H-370

## Customer: PTRHTF20028

**ENERCHEM INTERNATIONAL** 

P.O. BOX 1492 P.O. BOX 1492

SUNDRE, AB TOM 1X0 CA

Attn: Will Clark Tel: (403)638-3795

E-Mail: William.Clark@altagas.ca

## System Information

System Volume: 7800 ltr

Bulk Operating Temp: 545F / 285C

**Heating Source:** 

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: THERMO DESIGN ENG.

## Sample Information

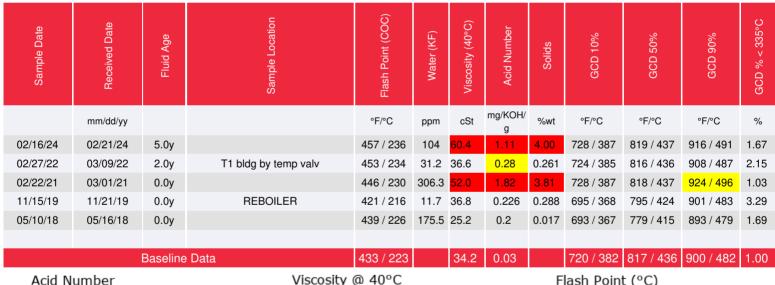
Lab No: 02617272 Analyst: Lyle Dach Sample Date: 02/16/24 Received Date: 02/21/24 Completed: 02/26/24

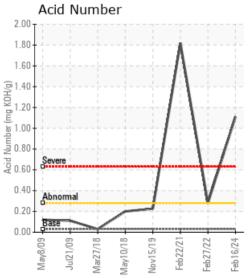
Lyle Dach

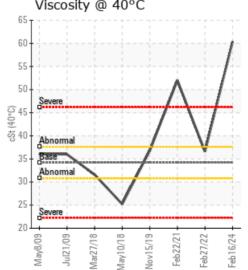
lyle.dach@HFSinclair.com

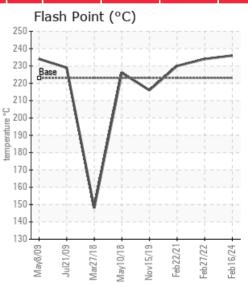
Recommendation: If this is a representative sample of the whole system the fluid is severely degraded due to oxidation which happens when hot fluid is exposed to air. The high solids content indicates that the system will be fouled with acidic carbon deposits. Resample to ensure this sample is accurate, if the system is equipped with pumps sample off the discharge of the pumps. If a low point drain must be used ensure the point is flushed well and the sample is representative of the whole system. If the fluid is degraded to these levels the system will need to be cleaned internally and fluid replaced.

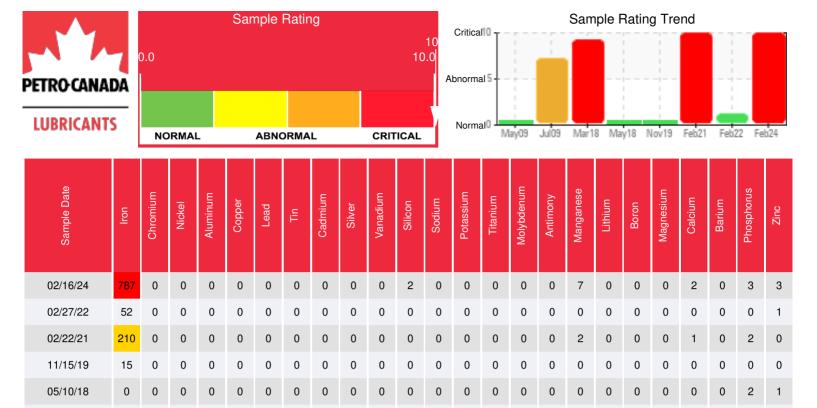
Comments: Iron ppm levels are severe. PQ levels are severe. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. Visc @ 40°C is severely high.







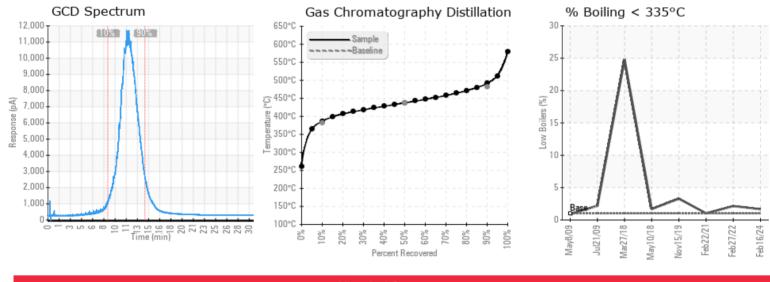




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

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**Baseline Data** 



Historical Comments		Historical Comments
	02/27/22	Fluid condition has improved significantly and is acceptable for continued use. Acid number is still slightly high but is acceptable, ensure blanket gas is on and functioning properly. Resample in 12 months.
	02/22/21	Fluid is severely degraded due to oxidation which happens when hot fluid is exposed to air. The high solids content indicates that the system will be fouled with acidic carbon deposits. System will need to be cleaned internally and fluid replaced.
	11/15/19	Fluid condition is excellent. Suggest submitting samples of used fluid annually to proactively monitor fluid condition.
	05/10/18	Fluid is in excellent condition. The viscosity is lower than expected, likely from traces of solvent / flushing fluid during the cleaning process. Suggest a re-sample in 3 months to ensure things are on the right track.

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