[VESTA SYLVAN LAKE] 6-20-37-1-W5 HEAT MEDIUM #1

Customer: PTRHTF20261

VESTA ENERGY 6-20-37-1 W/5

SYLVON LAKE, AB Canada

Attn: JASON COFFIN Tel: (403)318-1291

E-Mail: jcoffin@vestaenergy.com

System Information

System Volume: 4700 ltr

Bulk Operating Temp: 329F / 165C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make:

Sample Information

Lab No: 02502705 Analyst: Lyle Dach Sample Date: 07/27/22 Received Date: 07/29/22 Completed: 08/15/22

Lyle Dach

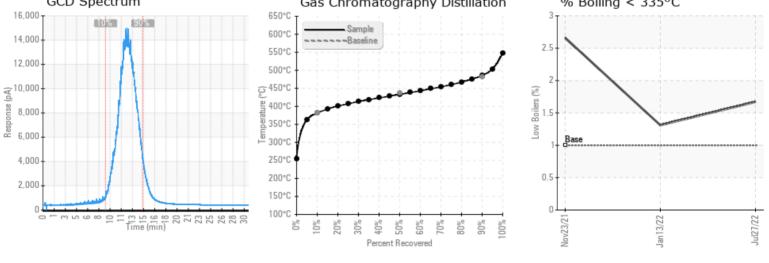
lyle.dach@HFSinclair.com

Recommendation: Sample results indicate that the fluid is in very good condition and is suitable for continued service. Resample in 12 months.

Comments:







Historical Comments

PQ, iron, and viscosity are high and pentane insolubles are very high. Confirm gas blanket is in place and operating correctly, improper gas blanketing can cause fluid oxidation. High iron and pentane insolubles could be filtered out, high temperatures do make this difficult ensure filtration system is rated for the temperature. Resample in 6 months or after filtration has been attempted.PQ levels are severe. Iron ppm levels are abnormal. Pentane Insolubles levels are severely high.

Particle Quantifier (PQ) is the bulk magnetic index of the oil sample due to the high iron. Acid number is high for a new fluid. Viscosity is slightly high could this be residual fluid left in the system at the time of the change. Pentane insoluble are also high but if a system flush was not completed at the change this could also be due to residual fluid/contaminants or the sample point was not flushed long enough to ensure only current system fluid was sampled. Resample the system, samples should be collected from a hot turbulent area (pump discharge) and ensure that the piping or tubing is purged adequately so that the sample is representative of the system. We do not recommend collecting from the bottom of a site glass or low point drainsPQ levels are severe. Iron ppm levels are abnormal. Pentane insolubles levels are severely high.

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