

## **VAPORIZER #7**

Customer: PTRHTF10092
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REC GROUP

119410 RICK JONES WAY

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## System Information

System Volume: 100 gal

Bulk Operating Temp: 250F / 121C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO LT

Make:

## Sample Information

Lab No: 02185627 Analyst: Ron LeBlanc Sample Date: 11/18/17 Received Date: 12/04/17 Completed: 12/06/17

To discuss this report contact Ron

LeBlanc at (541)967-6499

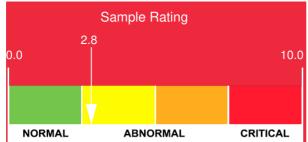
Recommendation: (GCD) 90% Distillation Point is severely high. (GCD) 50% Distillation Point is abnormally high. It appears there is a process leak as the silicon has doubled in comparison to last time.

Comments: (GCD) 90% Distillation Point is severely high. (GCD) 50% Distillation Point is abnormally high.

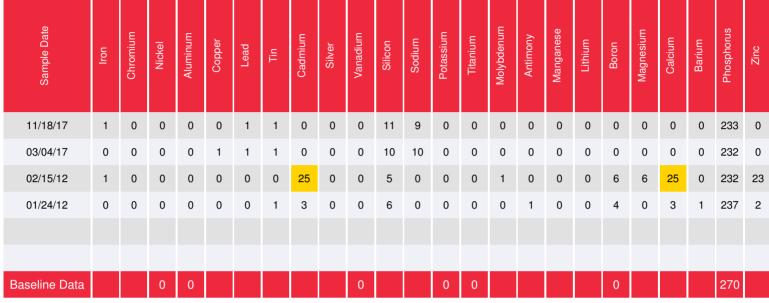




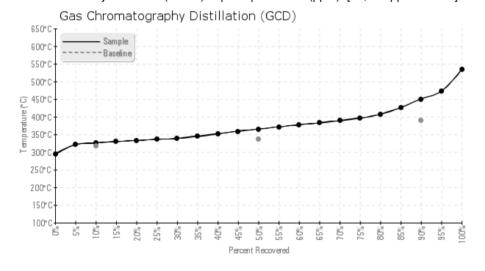
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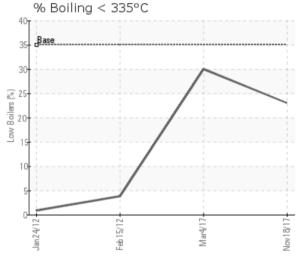






Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]





## Historical Comments

Water level is high. Viscosity has dropped significantly. Determine where water has entered system. Resample in one month to determine if this sample was taken improperly or if the sample reflects actual condition of the oil. Purge oil at collection point to get a respective sample. Water contamination levels are marginally high. (GCD) 90% Distillation Point is severely high. (GCD) 50% Distillation Point is marginally high. The oil appears to be in great shape, which is expected since it's after a full cleaning of the Vaporizer system. We see the TAN is higher than fresh oil and we observe some Calcium and Zinc which are not part of the Calflo AF. We are suspecting they might come from the cleaning solution or flushing oil used, which may have been a AW hydraulic oil or something with detergents in it. Let's re-sample in 6 months time to monitor the oil condition and degradation rate in those Vaporizer systems.

The oil appear to be oxidized. The Total Acid Number is elevated at 1.4. The viscosity is also higher than fresh oil which is also a sign of oxidation, even though

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