

VAPORIZER #7

Customer: PTRHTF10092

REC GROUP 119410 RICK JONES WAY

BUTTE (SILVER BOW), MT 59750 USA

Attn: Bill Telling Tel: (406)496-9929

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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

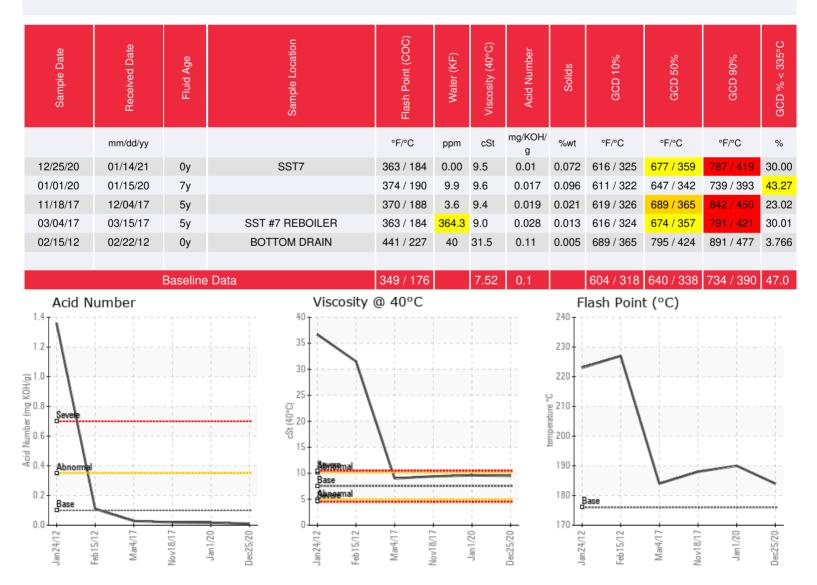
Lab No: 02397477 Analyst: Ron LeBlanc Sample Date: 12/25/20 Received Date: 01/14/21 Completed: 01/20/21

Ron LeBlanc

Ronald.LeBlancSr@petrocanadalsp.com

Recommendation: Fluid appears to be cracked due to the (GCD) 50% Distillation Point. High boilers are present due to GCD 90% Distillation point. Try removing from the expansion tank. Resample in 3 months.

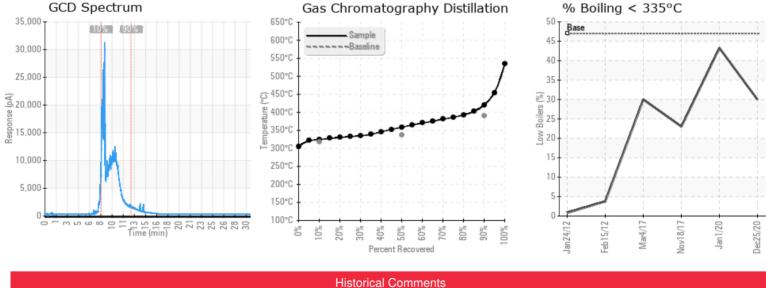
Comments: (GCD) 90% Distillation Point is severely high. (GCD) 50% Distillation Point is marginally high.



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



Historical Comments	
01/01/20	Sample appears normal. Sample at next scheduled interval. Be sure to purge oil at sample point before filling container. (GCD) % < 335°C is marginally high.
11/18/17	(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. (GCD) 90% Distillation Point is severely high. (GCD) 50% Distillation Point is abnormally high.
03/04/17	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.
02/15/12	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.

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