

LN02 Laminator Hot Oil System

Customer: PTRHTF10141

TAMKO BUILDING PRODUCTS

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System Information

System Volume: 110 gal

Bulk Operating Temp: 350F / 177C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO HTF

Make: Heat Exchanger And T

Sample Information

Lab No: 02379939 Analyst: Jake Finn Sample Date: 09/29/20 Received Date: 10/07/20

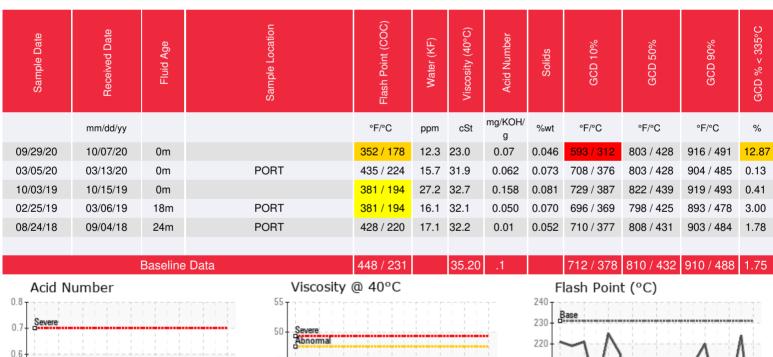
Completed: 10/16/20

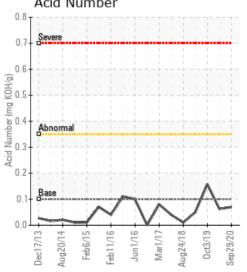
Jake Finn

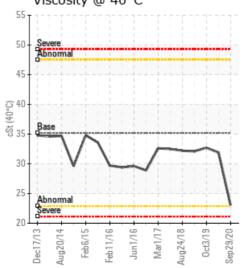
jake.finn@petrocanadalsp.com

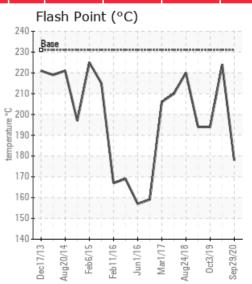
Recommendation: This sample is showing signs of severe thermal degradation. GCD 10% distillation is severely low, COC flash point is 53°C below normal, and viscosity grade has dropped from an ISO 32 to ISO 22. Our system information shows that the capacity for this system is 110 gallons which is not large enough to consider 'sweetening' or venting to improve fluid condition. There are no signs of system wear or contamination in this sample, but the current fluid condition requires this fluid be replaced with new Calflo HTF as soon as possible.

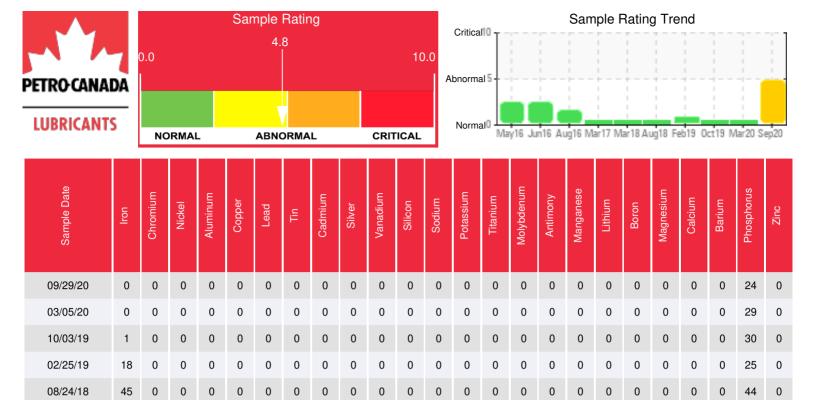
Comments: (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is abnormally high. COC Flash Point is abnormally low.







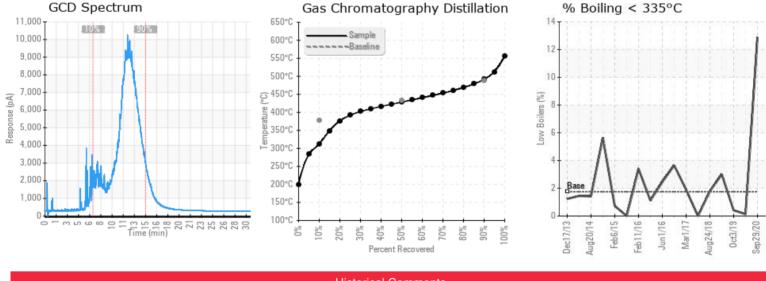




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

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Baseline Data



| Historical Comments | |
|---------------------|--|
| 03/05/20 | COC Flash point has improved since last sample, and this fluid appears to be in great condition. Please remember to include time on oil and filter in future sample submissions. Fluid is suitable for continued use, please resubmit in one year.N/A |
| 10/03/19 | Oil is suitable for continued use. Please resubmit sample in one year.COC Flash Point is marginally low. Venting the system may improve flash point. Iron levels have continued to improve over previous samples. |
| 02/25/19 | Fluid is suitable for continued use. Please re-sample and send to lab in 12 months.COC Flash Point is marginally low. Venting the system may improve flash point. Iron levels have continued to improve compared to previous two samples. |
| 08/24/18 | Fluid is suitable for continued use and sample from this 100-gal system should be re-submitted in August of 2019. All critical fluid parameters are in-line and free of contaminants. Some very lite debris was noticed by the lab technician. If system has any filters please change them. Furthermore, the fluid could be filtered using a kidney loop system during a safe shutdown period to obtain optimum cleanliness levels. |
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