

### **B2**

# Customer: PTRHTF30018

IKO INDUSTRIES 71 ORENDA ROAD BRAMPTON, ON L6W 1V8 CA

A...

Attn: Emerson Lucha

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## System Information

System Volume: 6800 gal

Bulk Operating Temp: 575F / 302C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: VAPOR POWER

#### Sample Information

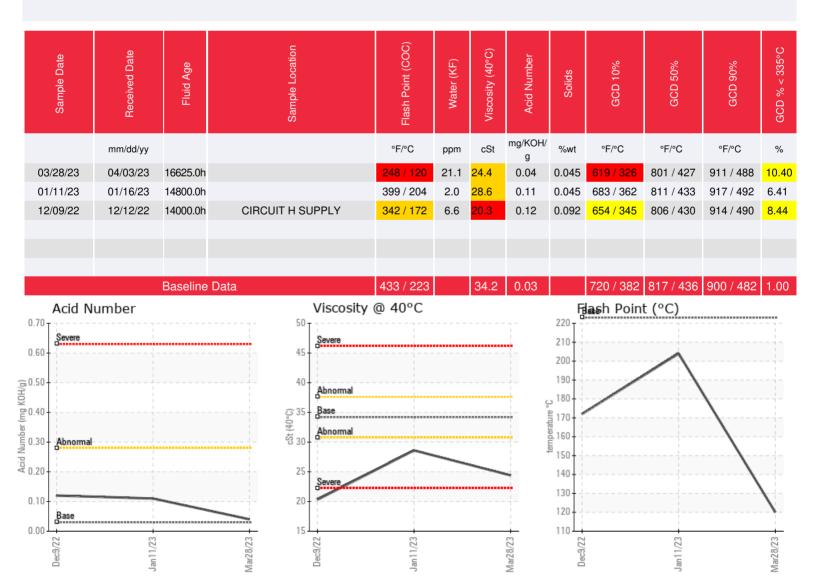
Lab No: 02549455 Analyst: Yen Garcia Sample Date: 03/28/23 Received Date: 04/03/23 Completed: 05/08/23

Yen Garcia

yen.garcia@HFSinclair.com

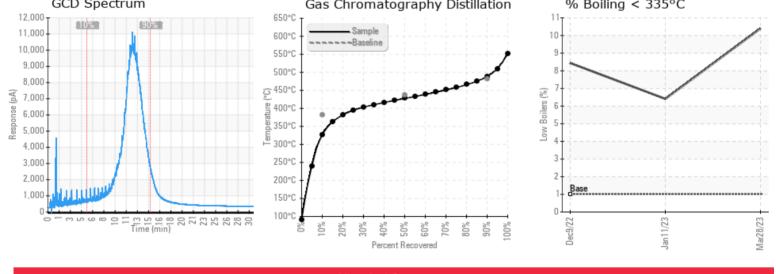
Recommendation: GCD 10% Distillation Point is very low, vent off low boilers. COC Flash Point is severely low. Visc @ 40°C low. We should schedule a discussion next week to review sample result.

Comments: (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high.



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## **Historical Comments**

01/11/23

the 2nd sample shows much better oil viscosity and flash point. The oil condition is acceptable-to-good condition. If IKO increases the operating temperature, the better practice would be changing to oil to a more robust product which can handle higher film and bulk temperatures. to increase the life of the oil, you can keep the system running at lower temperature if possible for production.

12/09/22

the oil viscosity is severely low. it might happened due to wrong oil addition ( the volume must be significant) or the hydrocarbon breakdown to shorter and smaller hydrocarbon chains. Low viscosity led to much lower flash point and higher vapor pressure. if there is a leak, there might be big safety issue for the plant and workers.Low GCD at 10% confirms all these findings. Sweetening is recommended with the same product or switch to a product with higher oil film temperature. Visc @ 40°C is severely low. COC Flash Point is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.

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