



VTA HOT OIL PUMP

Customer: PTRHTF10004

ADM VITAMIN E PLANT 3700 EAST DIVISION STREET DECATUR, IL 62526 USA

Attn: Rick Cluck Tel: (217)451-7770

E-Mail: ricky.cluck@adm.com

System Information

System Volume: 1800 gal

Bulk Operating Temp: 650F / 343C

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: AMERICAN HEATING

Sample Information

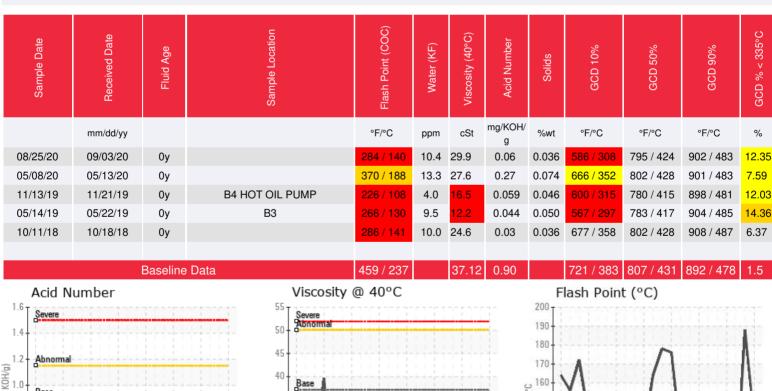
Lab No: 02374017 Analyst: Joe Goecke Sample Date: 08/25/20 Received Date: 09/03/20 Completed: 09/08/20

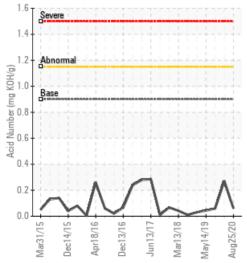
Joe Goecke

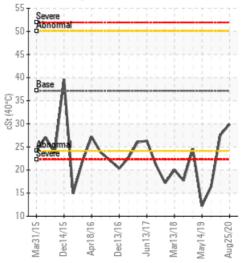
Joe.goecke@petrocanadalsp.com

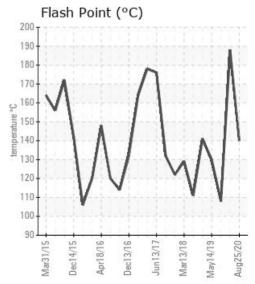
Recommendation: We are starting to see signs of significant cracking with low boilers passing the 12% mark and flash point at 140 C. Once the GCD <335 exceed 15% we recommend changing. I would shorten the sampling cycle by half to see what the oil looks like in mid October. Should look to change by November or do a partial exchange.

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

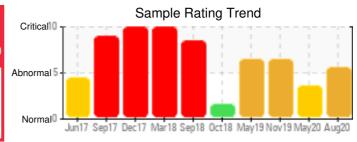


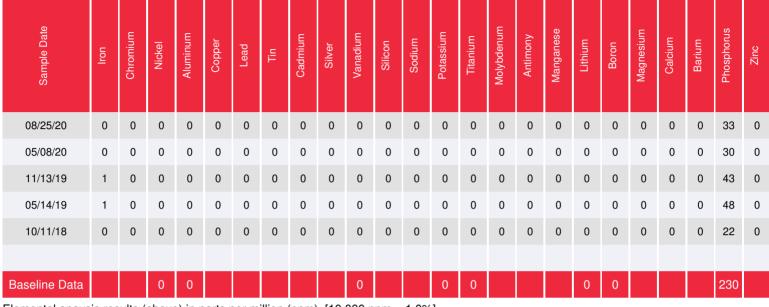




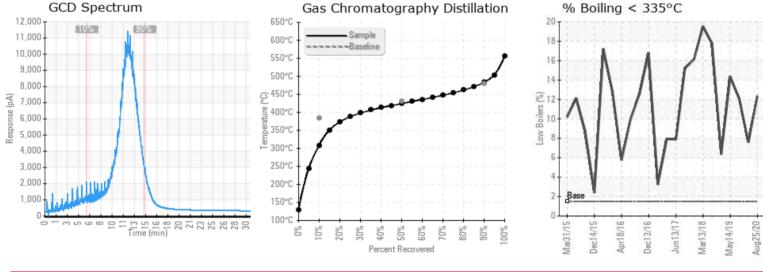








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments	
05/08/20	Viscosity is good, and although the flash point is lower than new it is still in an acceptable range for operating and the low boilers are less than 10%. Continue to operate and resample in 60-90 days. COC Flash Point is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.
11/13/19	Viscosity is still low and flash point has decreased I suggest planning a change or partial change to get the system in better condition within the next 45 days. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. Visc @ 40°C is severely low. (GCD) % < 335°C is abnormally high.
05/14/19	This system is extremely low on viscosity at 12.2 cSt. Flash point is over 100 degrees C less than a fresh charge and the low boilers are over 14%. I recommend planning a change of this oil soon since venting is currently not an option. Heat transfer ability and safety are main concerns. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. Visc @ 40°C is severely low. (GCD) % < 335°C is abnormally high.
10/11/18	System much better. Flash point still a little low, but 30 Degrees C higher than before. GCD points all looking better. Continue to use and resample in 60 days. COC Flash Point is severely low.

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