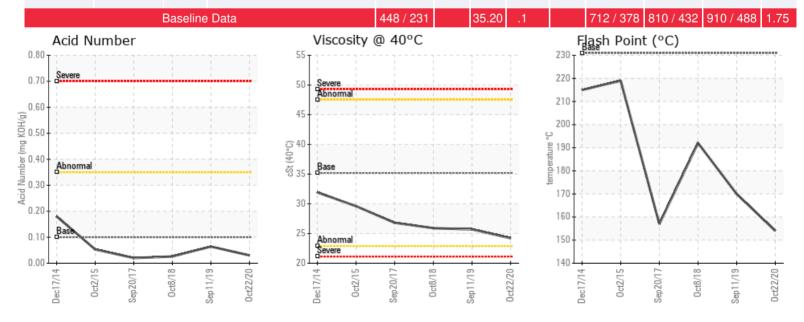


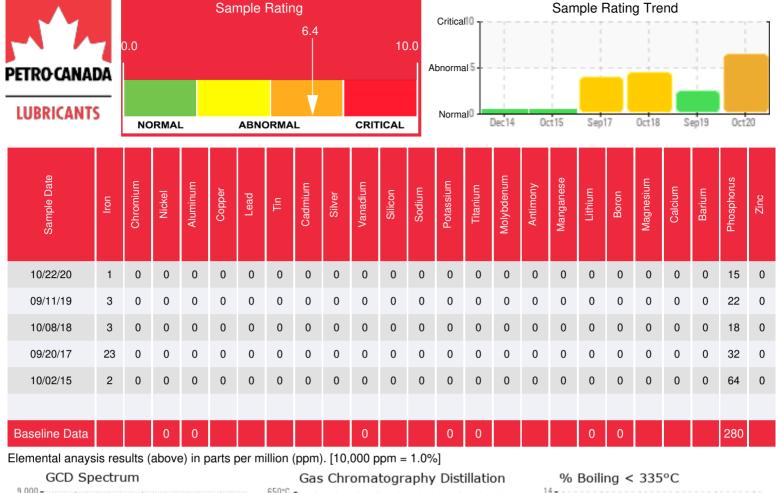
Customer: PTRHTF10002	System Information	Sample Information
EVONIK	System Volume: 1500 gal	Lab No: 02384369
3305 26th ST	Bulk Operating Temp: 600F / 316C	Analyst: Steven Slanker
LOS ANGELES, CA USA	Heating Source:	Sample Date: 10/22/20
Attn: Prakash Mehta	Blanket:	Received Date: 10/29/20
Tel: (818)709-0492	Fluid: PETRO CANADA CALFLO HTF	Completed: 11/05/20
E-Mail: purelubricants@earthlink.net	Make:	Steven Slanker
		steven slanker@hollvfrontier.com

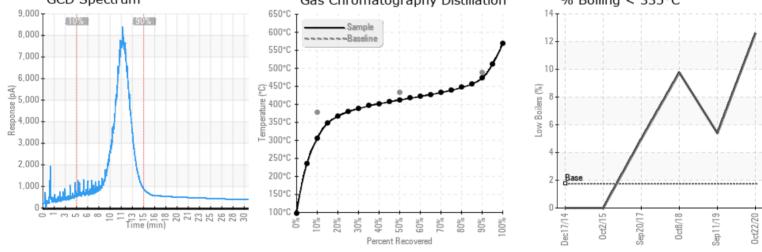
Recommendation: Distillation and flash points very low. Carefully vent off the low boilers and resample.

Comments: (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. (GCD) % < 335°C is abnormally high. (GCD) 90% Distillation Point is abnormally low.

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
10/22/20	10/29/20	1.0y		309 / 154	18.6	24.2	0.03	0.065	580 / 304	773 / 412	881 / 472	12.61
09/11/19	09/20/19	0.0y		338 / 170	18.8	25.7	0.064	0.048	683 / 362	799 / 426	888 / 476	5.39
10/08/18	10/29/18	0.0y		378 / 192	21.6	25.9	0.026	0.052	632 / 333	779 / 415	886 / 474	9.76
09/20/17	10/02/17	2.0y		315 / 157	593.8	26.8	0.02	0.109	687 / 364	805 / 430	936 / 502	4.97
10/02/15	10/20/15	1.0y		426 / 219	2.4	29.6	0.053	0.071	725 / 385	804 / 429	897 / 480	0.00







Historical Comments

09/11/19	The flash point is severely low. Vent the volatile components off to raise the COC flash point. Check the heater and determine if it is overheating the heat transfer fluid during the heating cycle. COC Flash Point is severely low. (GCD) 90% Distillation Point is marginally low.
10/08/18	High level of low boilers. Need to vent system and remove these before they become a major hazard. Review heater settings and determine if overheating is taking place during startups and heating cycles. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high. COC Flash Point is marginally low. (GCD) 90% Distillation Point is marginally low.
09/20/17	The Flash Point is severely low and the water high. Vent the tank to remove the low boilers. Replace part of the fluid if venting does not raise the flash point enough. Water contamination levels are marginally high. Water contamination levels are marginally high. COC Flash Point is severely low. (GCD) 90% Distillation Point is marginally high.
10/02/15	Fluid suitable for continued use. Resample at normal interval.

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