

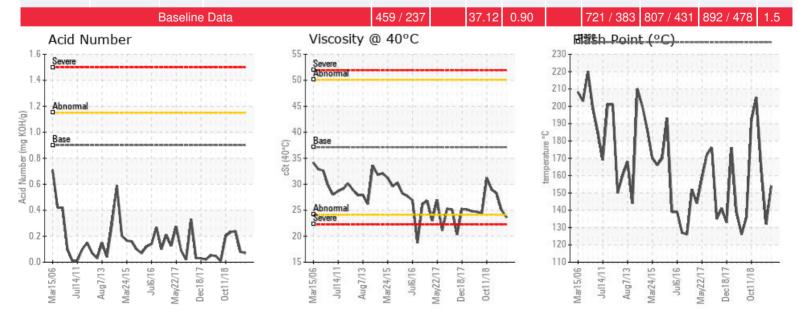
WEST HOT OIL SYSTEM

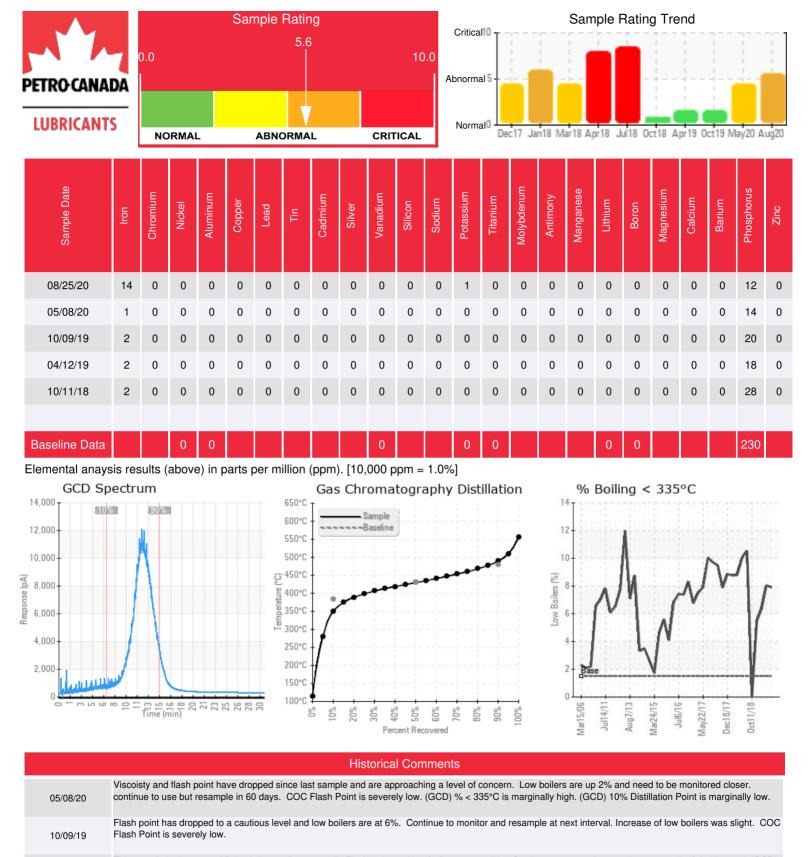
Customer: PTRHTF10004	System Information	Sample Information
ADM VITAMIN E PLANT	System Volume: 2200 gal	Lab No: 02374015
3700 EAST DIVISION STREET	Bulk Operating Temp: 550F / 288C	Analyst: Joe Goecke
DECATUR, IL 62526 USA	Heating Source:	Sample Date: 08/25/20
Attn: Rick Cluck	Blanket:	Received Date: 09/03/20
Tel: (217)451-7770	Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID	Completed: 09/08/20
E-Mail: ricky.cluck@adm.com	Make: AMERICAN	Joe Goecke
		Joe.goecke@petrocanadalsp.com

Recommendation: Viscosity a bit lower, flash point actually a bit higher but still in the danger area. low boilers decreased a bit as well. system seems stable and okay to run to next sample date.

Comments: COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 90% Distillation Point is marginally high. (GCD) 10% Distillation Point is marginally 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	%
08/25/20	09/03/20	0y	24B	309 / 154	11.9	<mark>23.6</mark>	0.07	0.042	662 / 350	805 / 430	912 / 489	7.90
05/08/20	05/13/20	0y		270 / 132	14.5	25.0	0.08	0.036	659 / 348	801 / 427	909 / 487	8.04
10/09/19	10/16/19	1y		327 / 164	7.7	28.2	0.239	0.131	680 / 360	805 / 430	909 / 487	6.38
04/12/19	04/22/19	0y	PUMP	401 / 205	6.1	29.0	0.231	0.038	685 / 363	804 / 429	921 / 494	5.45
10/11/18	10/18/18	Oy		378 / 192	11.9	31.2	0.20	0.039	719 / 382	795 / 424	894 / 479	0.00





This sample looks great. Minimal change from new oil. Flash point and low boilers acceptable. Continue to use and resample at next scheduled interval (GCD)04/12/1990% Distillation Point is abnormally high. COC Flash Point is marginally low.

Sample looks very good. continue to use and resample in 90 days. All key parameters close to normal. COC Flash Point is abnormally low.

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10/11/18