

[VIT E 116] EAST

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: 2200 gal

Bulk Operating Temp: 550F / 288C

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: AMERICAN HEATING

Sample Information

Lab No: 02353748 Analyst: Joe Goecke Sample Date: 05/08/20 Received Date: 05/13/20 Completed: 05/21/20

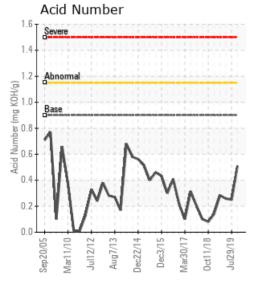
Joe Goecke

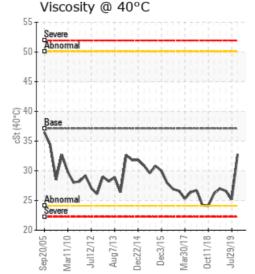
Joe.goecke@petrocanadalsp.com

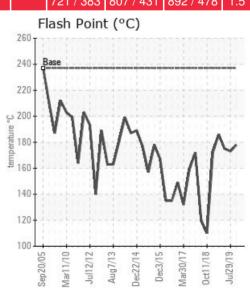
Recommendation: All parameters are in good shape. Flash point is a little low but okay. continue to use and resample in 90 days.

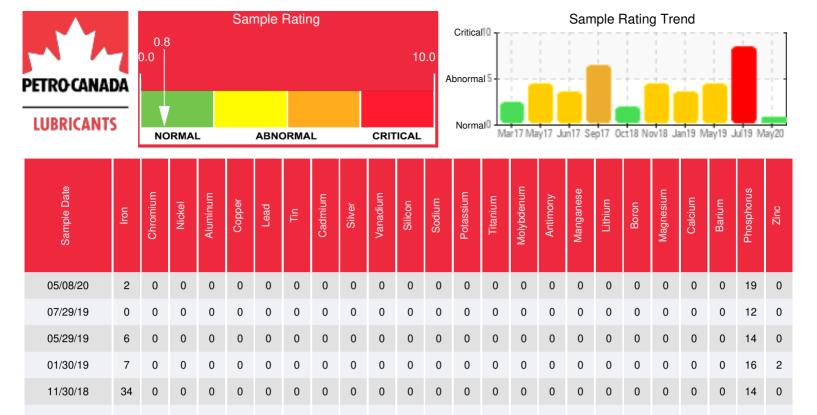
Comments: COC Flash Point is abnormally low.

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	%
05/08/20	05/13/20	0m		352 / 178	22.4	32.8	0.51	0.040	707 / 375	810 / 432	910 / 488	3.52
07/29/19	08/08/19	0m	HOT OIL PUMP	343 / 173	12.5	25.2	0.250	0.087	463 / 240	754 / 401	872 / 467	19.51
05/29/19	06/05/19	0m		347 / 175	20.5	26.6	0.259	0.062	657 / 347	796 / 425	909 / 487	7.91
01/30/19	02/08/19	0m		367 / 186	8.4	27.0	0.283	0.020	641 / 339	778 / 415	888 / 475	8.94
11/30/18	12/07/18	2m		342 / 172	12.8	26.2	0.14	0.087	658 / 348	802 / 428	910 / 488	7.95
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





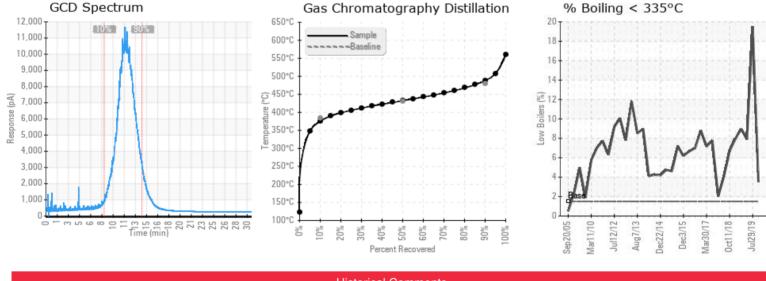




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

0

Baseline Data



Historical Comments						
07/29/19	Low Boilers are very high at almost 20%. Flash point not much change or viscosity. Please consider a system change in the next 30-60 days with a resample. (GCD) % < 335°C is severely high. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. (GCD) 90% Distillation Point is marginally low.					
05/29/19	Low boilers approaching 8% with viscosity and flash points both slightly lower the system is showing some signs of these building up in the system. System is okay for continued use resample in 60-90 days. COC Flash Point is severely low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.					
01/30/19	This sample looks better than the last. Light ends are fairly stable, flash point 10 degrees higher, and viscosity slightly higher. Overall fluid looks okay for continued use. Resample at next scheduled interval. COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.					
11/30/18	Sample has improved on Flash Point and viscosity. Sample looks okay to continue use and resample next quarter. COC Flash Point is severely low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.					

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