





[DREW @ CELANESE] 5R HOT OIL FURNACE

Customer: PTRHTF20087

Celanese Eva Performance Poly

4405-101 AVE.

P.O. 428

EDMONTON, AB T5J 2K1 Canada

Attn: Erik Halyk Tel: (780)468-0723

E-Mail: erik.halyk@celanese.com

Recommendation: Results are normal.

Comments:

System Information

System Volume: 0 ltr

Bulk Operating Temp: Not Specified

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: HEAT

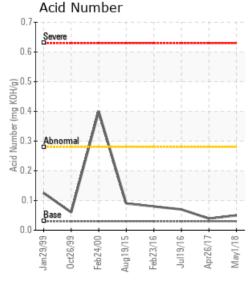
Sample Information

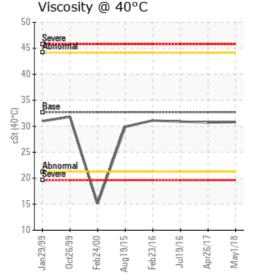
Lab No: 02214066 Analyst: Gordon Susinski Sample Date: 05/01/18 Received Date: 05/03/18 Completed: 05/07/18

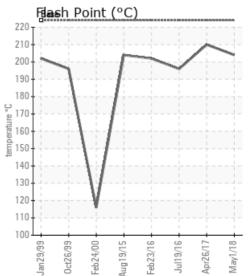
To discuss this report contact Gordon

Susinski at (587)582-4118

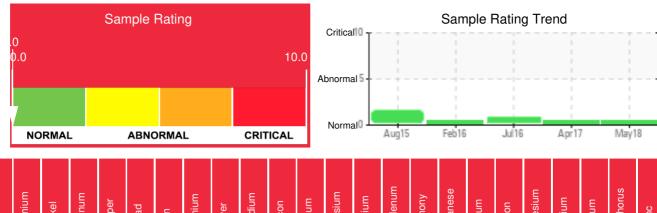
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	%06 QD9	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
05/01/18	05/03/18	0h		399 / 204	8.3	30.8	0.05	0.186	687 / 364	794 / 423	893 / 479	2.50
04/26/17	04/27/17	0h	FILTER POT DRAIN	410 / 210	2.0	30.7	0.039	0.260	690 / 365	794 / 424	898 / 481	2.23
07/19/16	07/21/16	0h	DRAIN	385 / 196	19.4	30.9	0.07	0.093	694 / 368	795 / 424	928 / 498	0.64
02/23/16	02/24/16	0h	FILTER DRAIN	396 / 202	8.7	31.1	0.08	0.110	683 / 361	782 / 417	887 / 475	2.28
08/19/15	08/24/15	0h	FILTER POT DRAIN	399 / 204	20.2	29.9	0.09	0.167	688 / 365	793 / 423	892 / 478	1.86
02/24/00	02/28/00	0h	YC000224-08	241 / 116		15.1	0.400					
	I	435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5		





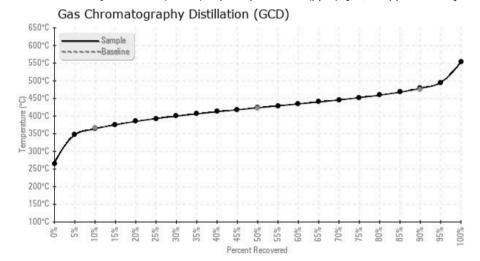


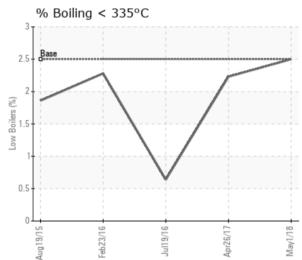




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
05/01/18	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	21	0
04/26/17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	23	0
07/19/16	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	22	0
02/23/16	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	24	0
08/19/15	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	0
02/24/00	3	0	0	0	0	0	0	0	0		0	6	0	0	0				0	0	0	0	33	2
Baseline Data			0	0						0			0	0					0				270	

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





	Historical Comments
04/26/17	Results are normal. Re sample at the next sample interval and continue to monitor.
07/19/16	Flash Point reduction is typically associated with thermal degradation of the heat transfer oil. Resample at the next interval and continue to monitor the system. COC Flash Point is marginally low.
02/23/16	Results are normal. Resample at the next PM period and continue to monitor the system.
08/19/15	This sample appears to be in good shape and showing good test results. Through discussions with your site, it is possible that this sample was taken from a dead leg and may not be completely representative of the fluid in the system. Please try to obtain a sample from the main flow of the system and send in for re-testing. I agree with the laboratories interpretaion
02/24/00	This is a baseline read-out on the submitted sample.

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.