

## **COMPOUNDING PRODEX**

# Customer: PTRHTF20087

Celanese Eva Performance Poly

4405-101 AVE.

P.O. 428

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### System Information

System Volume: 0 ltr

Bulk Operating Temp: Not Specified

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: N/A

### Sample Information

Lab No: 02234144 Analyst: Gordon Susinski Sample Date: 08/08/18 Received Date: 08/16/18 Completed: 08/20/18

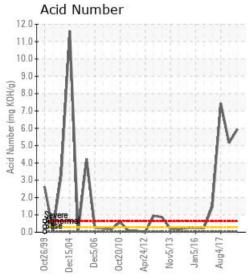
To discuss this report contact Gordon

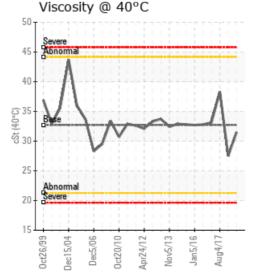
Susinski at (587)582-4118

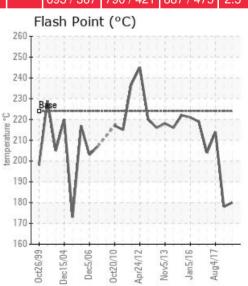
Recommendation: Based on the analysis results, as presented, indicate a critical state. it appears that the oil may have experienced one or some of the following severe deteriorating conditions: Thermal degradation, severe component wear and / or oxidation. Iron, copper, zinc, water, pentane Insolubles and acid number are all in a severe state. PQ, lead and COC flash point are abnormal. Results of this nature should be confirmed ASAP by means of a rush resample with extra care taken to ensure that a clean representative sample be taken and good sampling procedures are followed. The system should be monitored closely by engineering until the resample results are obtained and can be discussed.

Comments: Copper and iron ppm levels are severe. PQ levels are abnormal. Lead ppm levels are abnormal. Water contamination levels are severely high. ppm Water contamination levels are severely high. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. Zinc ppm levels are severely high. COC Flash Point is marginally low.

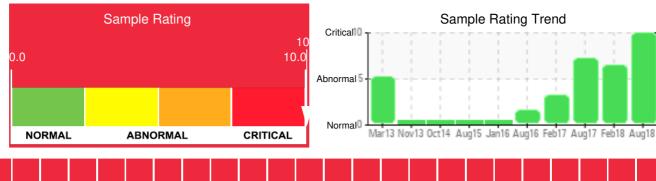
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
08/08/18	08/16/18	0y	TANK	356 / 180	1020.3	31.5	5.95	6.08	664 / 351	788 / 420	897 / 481	6.27
02/21/18	02/27/18	1y		352 / 178	131.6	27.5	5.16	0.980	672 / 356	778 / 414	870 / 466	4.61
08/04/17	08/11/17	6у	RESERVOIR	417 / 214	371.5	38.3	7.43	0.223	729 / 387	813 / 434	911 / 488	1.21
02/07/17	02/09/17	6у	RESERVOIR	399 / 204	62.3	33.1	1.47	0.029	701 / 372	799 / 426	899 / 481	1.30
08/04/16	08/05/16	0y	EXPANSION TANK	426 / 219	0.00	32.8	0.232	0.031	719 / 382	809 / 432	901 / 483	0.35
01/05/16	01/06/16	0y	TANK/DREW @ CELANESE	430 / 221	0.00	32.7	0.26	0.007	692 / 367	790 / 421	881 / 472	1.77
	ı	Baseline	Data	435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





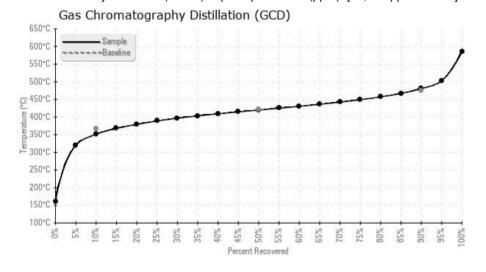


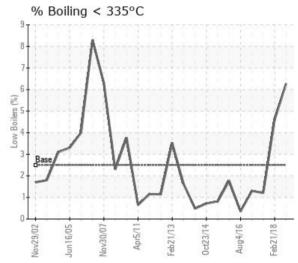




Sample Date	lron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
08/08/18	698	0	0	0	219	15	0	0	0	0	1	0	0	0	0	0	3	0	1	0	0	0	217	167
02/21/18	177	0	0	0	23	2	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	240	32
08/04/17	294	0	0	0	9	1	0	0	0	0	4	0	1	0	0	0	1	0	1	0	0	0	265	18
02/07/17	3	0	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	262	1
08/04/16	0	0	0	0	3	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	277	1
01/05/16	0	0	0	0	0	0	1	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	274	0
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 Based on the analysis results, a gapacer that the old may have experienced one or both of the following deteriorating conditions. 1.) System was, 2.) Heat treated flad conditions, 8.3.) Thorough degradation. This may be due in part to the longth of service on the oil of years indicated in ord dear or consistent from sample to sample/bloth the sample ratio) products on the conditions to increase. The add number are they due to the formation of costation to year of the conditions to increase and commission to count the final continuous to increase the product of the conditions to increase the product of the conditions of the count of the final continuous to increase the product of the conditions of the count of the final continuous to increase the conditions of the count of the final continuous to increase the conditions of the count of the final continuous to increase the conditions of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the count of the final continuous to increase and commission of the final continuous to increase and commission of the count of the final continuous to increase and commission of the final continuous to increase and com

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