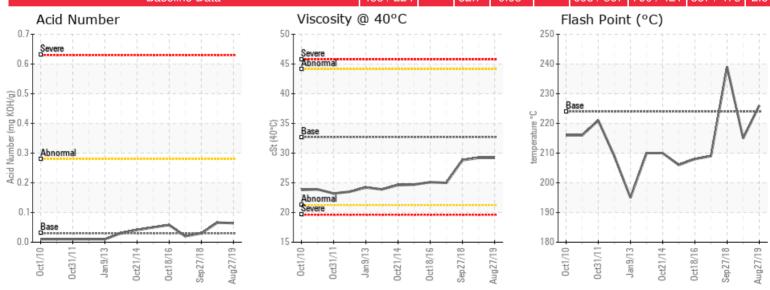


Customer: PTRHTF10048	System Information	Sample Information
MOMENTIVE PERFORMANCE	System Volume: 100 gal	Lab No: 02306724
MATERIAL	Bulk Operating Temp: 305F / 152C	Analyst: Manny Garcia
703 SOUTH STREET	Heating Source:	Sample Date: 08/27/19
NEW SMYRNA BEACH, FL 32168 USA	Blanket:	Received Date: 09/06/19
Attn: Don Pultz	Fluid: PETRO CANADA CALFLO AF	Completed: 09/09/19
Tel: (386)409-5524	Make: SPALTECH	
E-Mail: donald.pultz@momentive.com		

Recommendation: Sample is suitable for continued use. Please submit next sample on August 2020

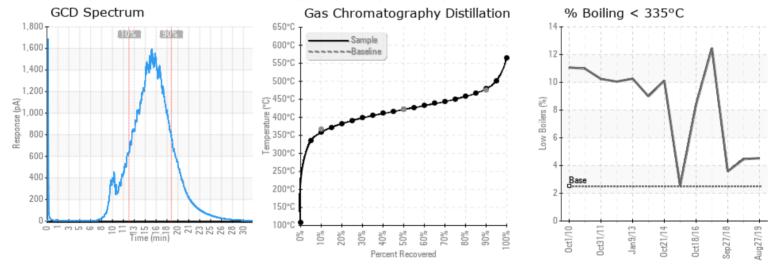
Comments: Very light debris noticed in the fluid. During any shutdown periods, the fluid could be filtered thru a kidney loop system to eliminate any debris/contamination. Emulsified water noticed by the lab which should evaporate off during normal operation at these elevated operating temperatures.

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	%
08/27/19	09/06/19	1y	PORT	439 / 226	145.4	29.2	0.064	0.130	676 / 358	790 / 421	894 / 479	4.53
05/23/19	05/24/19	1y	XST SAMPLE PORT	419 / 215	113.3	29.2	0.066	0.035	672 / 356	782 / 416	883 / 473	4.46
09/27/18	10/03/18	Oy		462 / 239	3.7	28.8	0.03	0.037	677 / 358	781 / 416	878 / 470	3.57
11/02/17	11/13/17	9у		408 / 209	4.3	25.0	0.02	0.013	628 / 331	734 / 390	846 / 452	12.47
10/18/16	10/27/16	6y	OIL RESERVOIR	406 / 208	35.7	25.1	0.058	0.059	643 / 339	780 / 416	900 / 482	8.37
10/23/15	11/05/15	5y	SAMPLE PORT	403 / 206	0.00	24.7	0.05	0.029	709 / 376	805 / 430	906 / 486	2.54
Baseline Data			435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5	





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



Historical Comments

05/23/19	Fluid is suitable for continued use. Please re-submit sample in May 2020Fluid parameters appear to be in very satisfactory condition. Fluid appears to have a 'hazy' appearance and there is very lite debris present in the oil. Filtration of the fluid in the system during a safe 'down-time' could help in maintaining proper system cleanliness.
09/27/18	Fluid is suitable for continued use. Please include time on oil and component age when the next annual sample is sent September, 2019. The fluid condition has greatly improved in the last year between analysis. Continue to maintain the system in the same fashion for optimal results.
11/02/17	Venting' this system can assist in bringing the distillation points back in-line. Any maintenance done to mitigate these values should be followed up with another oil sample to our lab for verification. Very Low Wear Metals; Low contamination levels; 4.3ppm water level - low; Very low acid numbers; 25 CsT @ 40oC' (GCD) 90% Distillation Point is severely low. (GCD) % < 335°C is marginally logh. (GCD) 10% Distillation Point is marginally low. (GCD) 50% Distillation Point is marginally low. Pentane insolubles are low; Very Light debris visible;
10/18/16	Fluid sample is good for continued service. Please re-sample and submit to lab in October 2017. Thanks for your business!Wear metals are low/contaminant levels are low/water levels are acceptable at 35.7 ppm/Viscosity is satisfactory/Flash point is satisfactory/distillation curves at 10%-50% and 90% satisfactory/very lite debris present in sample/pentane insoluble are low/
10/23/15	Oil is suitable for continued use. Please send in sample during next scheduled interval.Wear Metals are Low; Contaminant Levels are Low; Water is Nil; Total Acid Number is Very Low; Viscosity is one grade lower then the formulation design; Flash Point is good; 90% Distillation is high and venting the system could get this number back into place. Pentane Solids are low.

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