

TPC 1000LNE

Customer: PTRHTF40071
 ELBURG GLOBAL VEGETABLE OILS
 VAN KINSBERGENSTRAAT 5
 ELBURG, 8081 CL NETHERLANDS
 Attn: Maintenance Manager
 Tel:
 E-Mail:

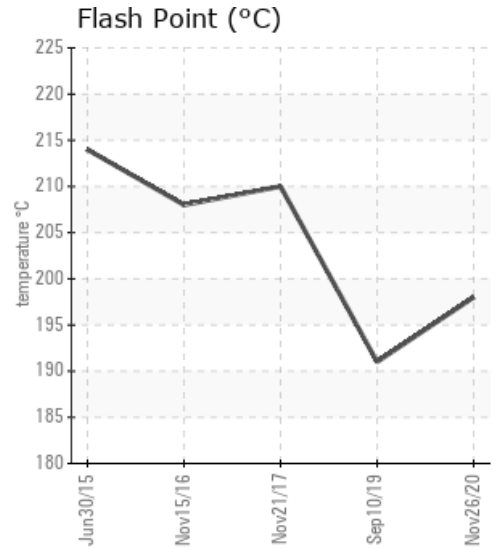
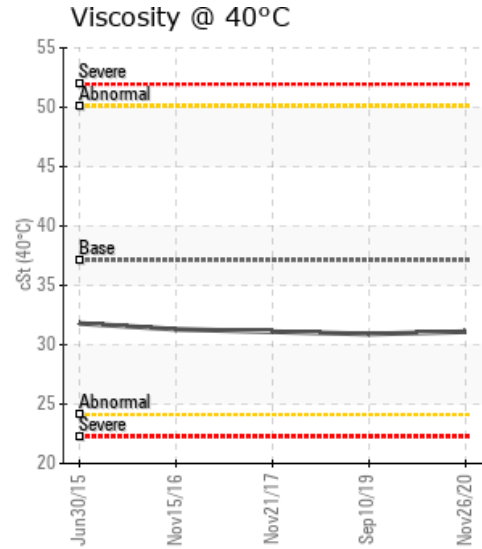
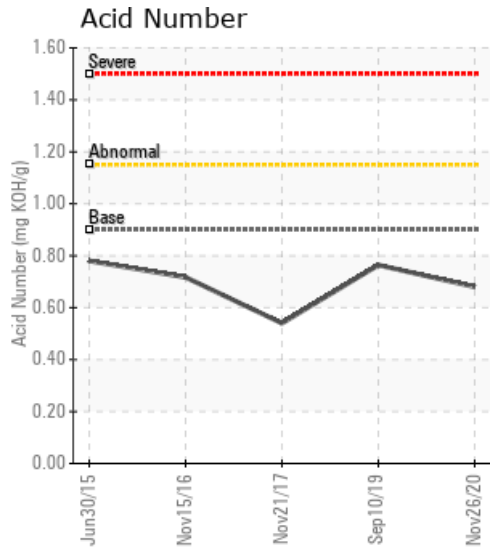
System Information
 System Volume: 2000 ltr
 Bulk Operating Temp: 250F / 121C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID
 Make: WANSON

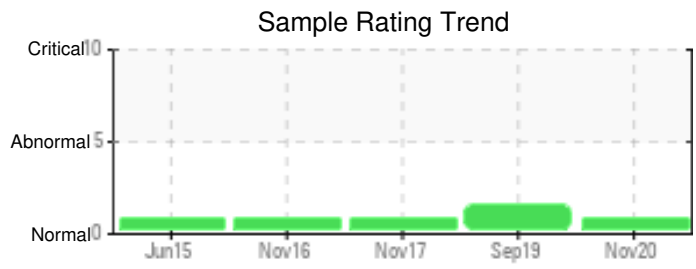
Sample Information
 Lab No: 02390709
 Analyst: Matthias Voss
 Sample Date: 11/26/20
 Received Date: 12/02/20
 Completed: 12/08/20
 Matthias Voss
 Matthias.Voss@petrocanadalsp.com

Recommendation: Fluid fit for further use.

Comments:

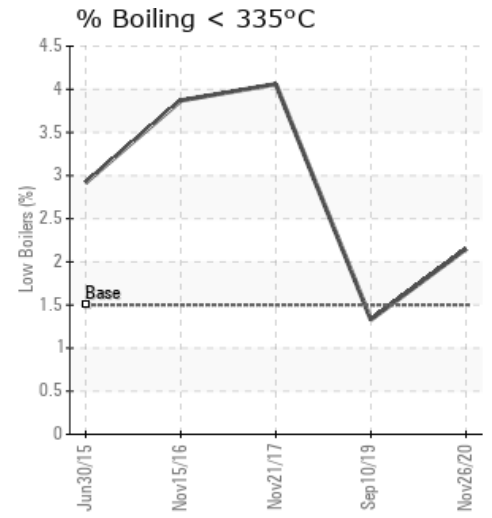
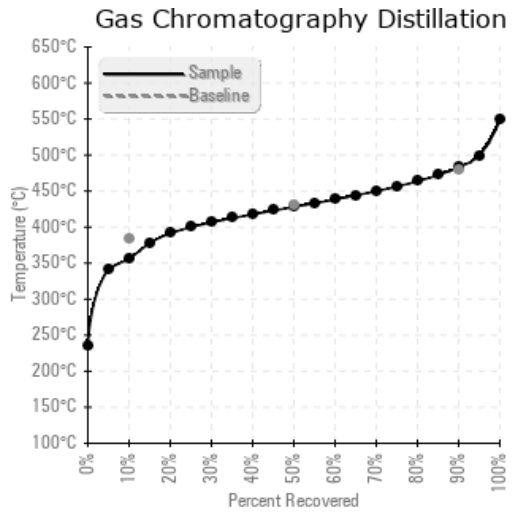
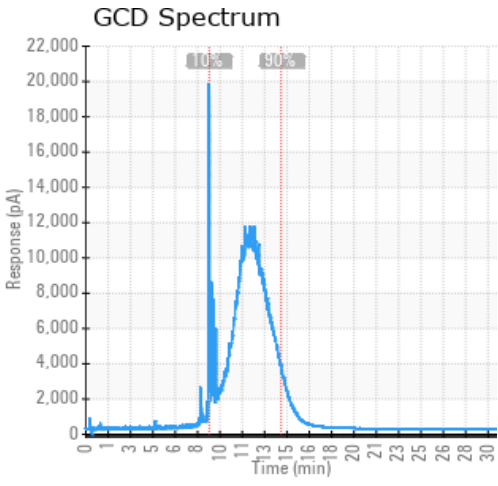
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/26/20	12/02/20	6y		388 / 198	42.0	31.1	0.68	0.058	672 / 355	802 / 428	901 / 483	2.15
09/10/19	09/19/19	10y		376 / 191	34.1	30.9	0.764	0.066	694 / 368	816 / 435	913 / 489	1.33
11/21/17	11/27/17	3y		410 / 210	12.0	31.1	0.54	0.048	656 / 347	796 / 424	895 / 479	4.06
11/15/16	11/24/16	2y		406 / 208	82.5	31.3	0.717	0.056	663 / 351	804 / 429	904 / 484	3.87
06/30/15	07/03/15	1y		417 / 214	42.6	31.8	0.78	0.056	652 / 345	801 / 427	902 / 483	2.92
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
11/26/20	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2
09/10/19	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	3
11/21/17	19	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
11/15/16	9	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
06/30/15	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	1
Baseline Data			0	0						0			0	0				0	0				230	

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



Historical Comments	
09/10/19	COC Flash Pt marginally low, with little evidence of light ends. If safe to do so, try some form of venting to recover if possible. Slight deterioration of fluid rating but well within normal limits. Fit for further use and resample at next planned frequency. Note that oil life is not consistent and shows 3Y - 10Y COC Flash Point is abnormally low. (GCD) 90% Distillation Point is marginally high.
11/21/17	Low GC 10% showing evidence of some light ends. Consistent with previous years, all other parameters OK and fit for further use. Unusual spike on GC at 7-10 C chain (GCD) 10% Distillation Point is marginally low.
11/15/16	The oil is in good condition and fit for service. Suggest sample at next scheduled maintenance interval. (GCD) 10% Distillation Point is marginally low.
06/30/15	Oil appears to be in good condition and fit for further service. Sample at next scheduled maintenance interval. (GCD) 10% Distillation Point is abnormally low.

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