

PHASE 1

Customer: PTRHTF10092
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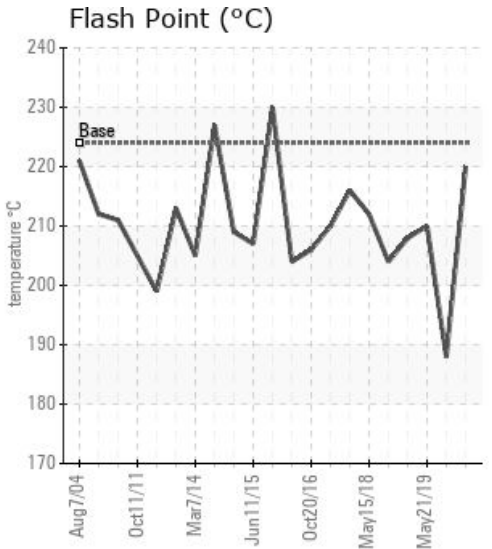
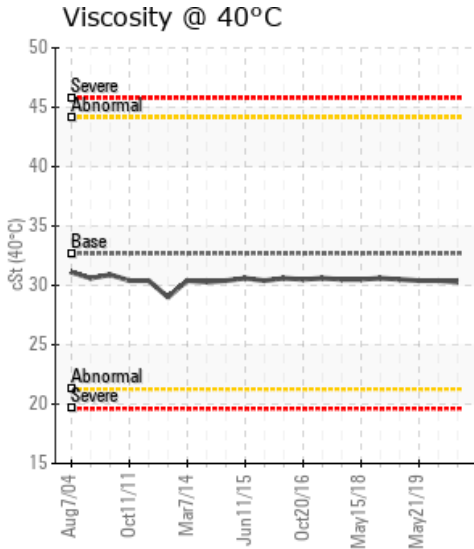
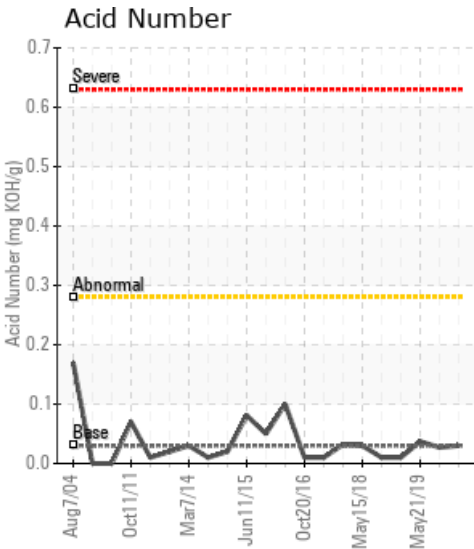
System Information
 System Volume: 41640 gal
 Bulk Operating Temp: 425F / 218C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA CALFLO AF
 Make: EXOTHERM

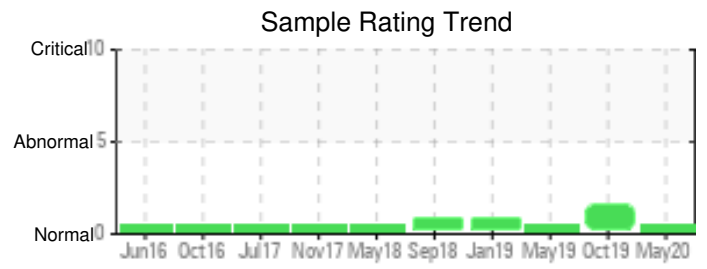
Sample Information
 Lab No: 02356545
 Analyst: Ron LeBlanc
 Sample Date: 05/13/20
 Received Date: 05/29/20
 Completed: 06/01/20
 Ron LeBlanc
 Ronald.LeBlancSr@petrocanadalsp.com

Recommendation: Sample appears normal. Resample in 3 months.

Comments:

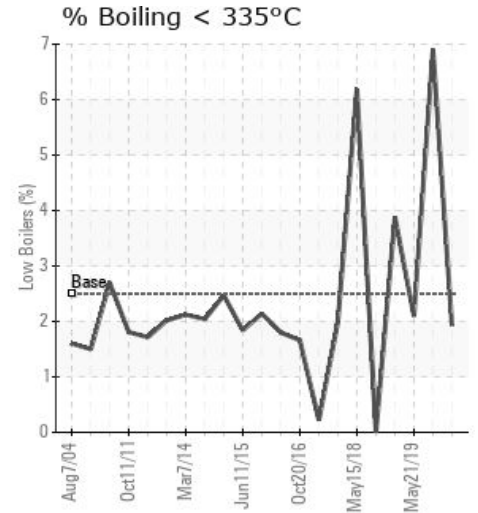
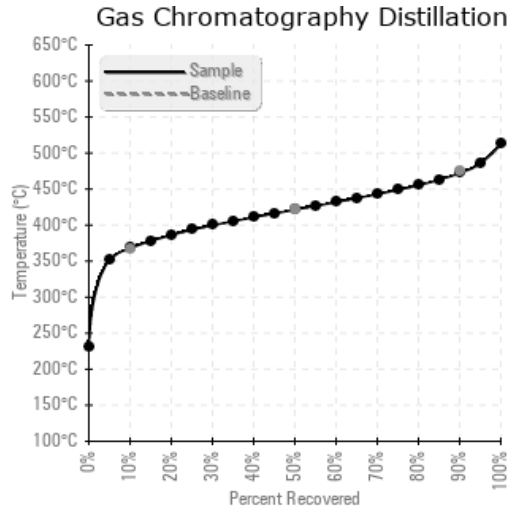
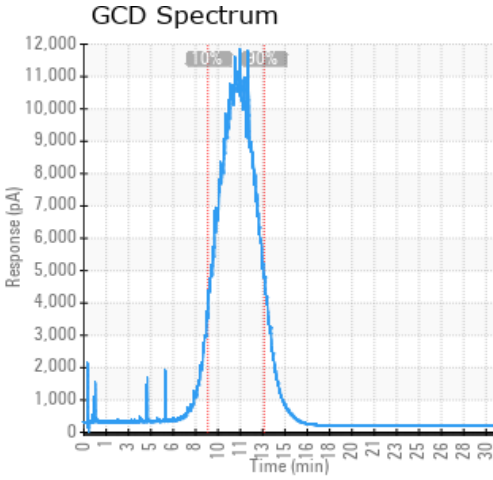
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/13/20	05/29/20	0y	p-1712a	428 / 220	27.9	30.3	0.03	0.146	694 / 368	790 / 421	882 / 472	1.93
10/11/19	11/04/19	0y	PL 1 HOT OIL	370 / 188	1.7	30.4	0.027	0.115	648 / 342	743 / 395	856 / 458	6.90
05/21/19	06/05/19	0y		410 / 210	12.6	30.4	0.037	0.056	687 / 364	788 / 420	884 / 473	2.10
01/04/19	01/25/19	15y		406 / 208	13.9	30.5	0.01	0.060	666 / 352	765 / 407	861 / 460	3.88
09/21/18	10/10/18	0y		399 / 204	12.2	30.6	0.01	0.023	699 / 371	778 / 414	865 / 463	0.00
Baseline Data				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
05/13/20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
10/11/19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
05/21/19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
01/04/19	19	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	16	0
09/21/18	9	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	11	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	
10/11/19	COC Flash Point is low. GCD 90% Point is slightly low. Add some new oil to bring the results up. Check to make sure oil was purged before sample was taken. Take another sample in 30 days to check results. (GCD) 90% Distillation Point is abnormally low. COC Flash Point is marginally low.
05/21/19	Sample appears normal. Re-sample at normal interval.
01/04/19	The (GCD) 90% point has dropped from previous sample. The Pentane insolubles have risen compared to last sample. Take a sample in 1 month and purge very well before taking sample. (GCD) 90% Distillation Point is marginally low.
09/21/18	GCD 90% distillation point slightly low. Could be due to sample point or not enough purge from sample point. Re-Sample in 60 days to observe results. (GCD) 90% Distillation Point is marginally low.

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