

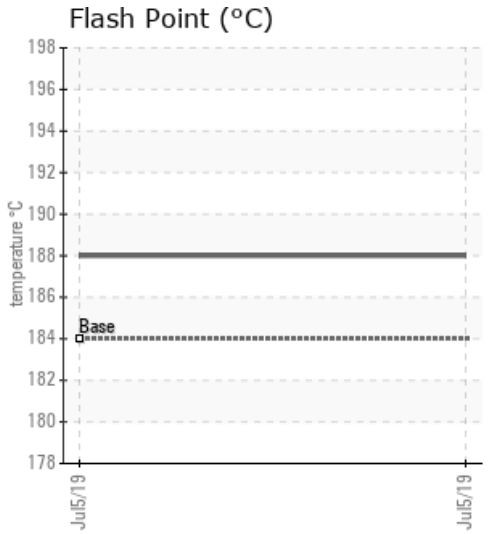
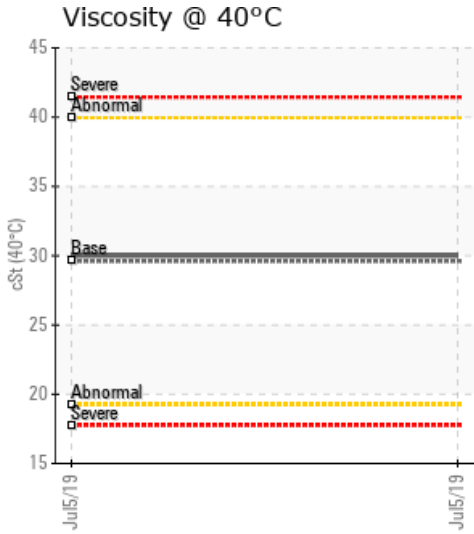
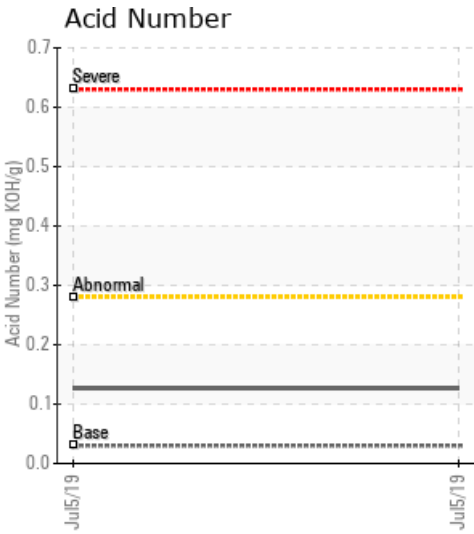
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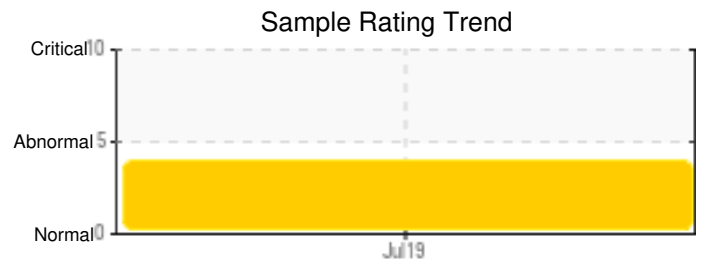
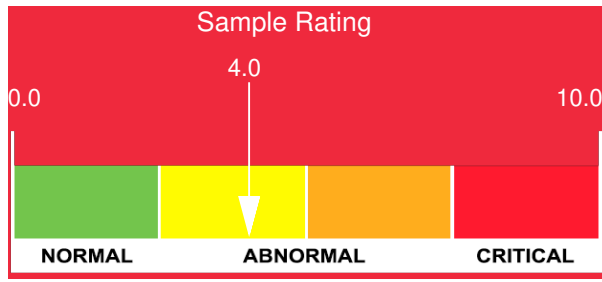
Customer: PTRHTF40088	System Information	Sample Information
EMANUELE MASCHERPA SPA VIA NATALE BATTAGLIA 39 MILAN, Italy Attn: MARCO MUNAFO Tel: (390)228-0031 E-Mail: m.munafo@mascherpa.it	System Volume: 19000 ltr Bulk Operating Temp: 572F / 300C Heating Source: Blanket: Fluid: EASTMAN THERMINOL 66 Make: UNICONFORT GLOBAL	Lab No: 02306727 Analyst: Philip Riley Sample Date: 07/05/19 Received Date: 09/06/19 Completed: 09/15/19

Recommendation: Not a Petro-Canada product and unfamiliar with the chemistry. Unable to diagnose without product knowledge. Trace looks to have evidence of cracking so would be worth a review with the supplier and look to change out to a Petro-Canada product following

Comments: (GCD) 90% Distillation Point is severely high. (GCD) % < 335°C is abnormally high.

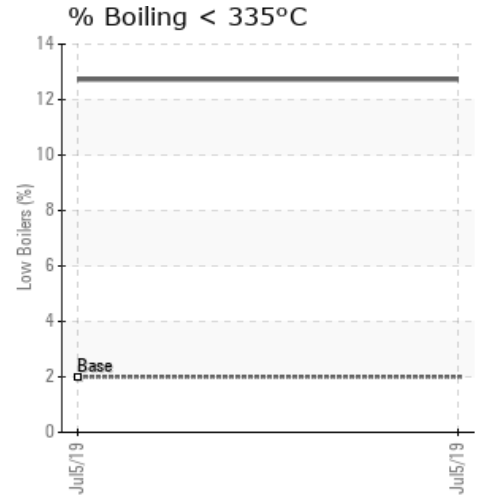
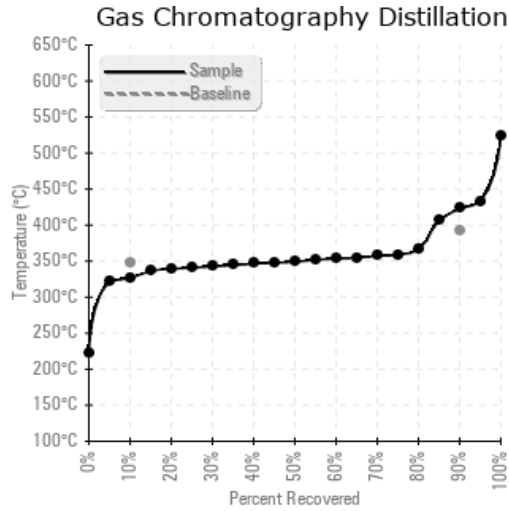
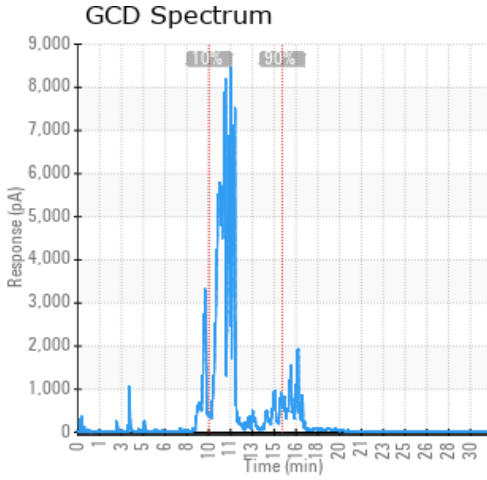
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/05/19	09/06/19	9y		370 / 188	175.7	30.0	0.127	0.177	618 / 326	660 / 349	793 / 423	12.73
Baseline Data				363 / 184		29.6	0.03		658 / 348		738 / 392	2.00





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
07/05/19	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0	

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



Historical Comments	

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