

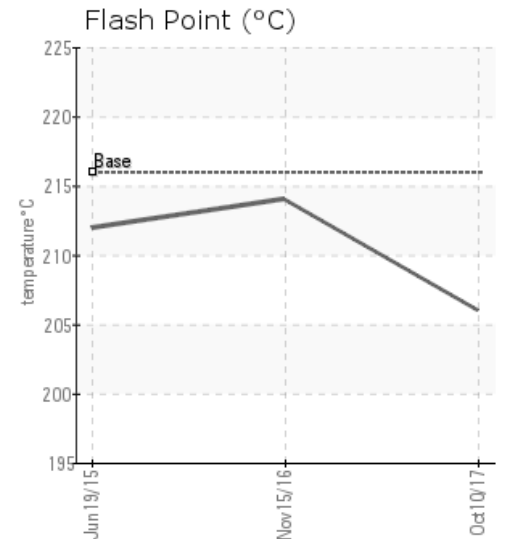
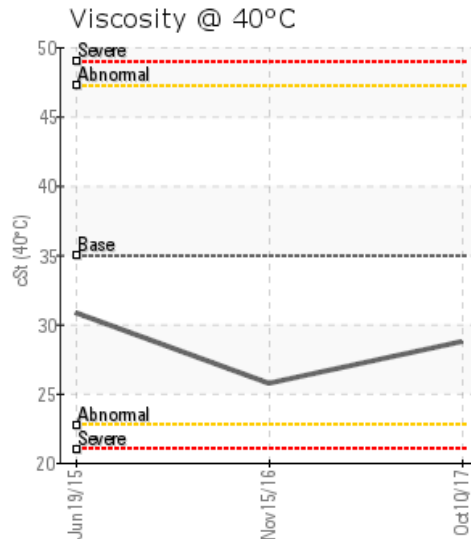
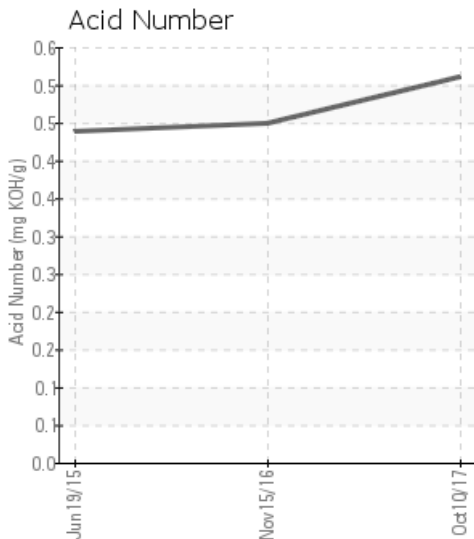
WANSON 300 LNE

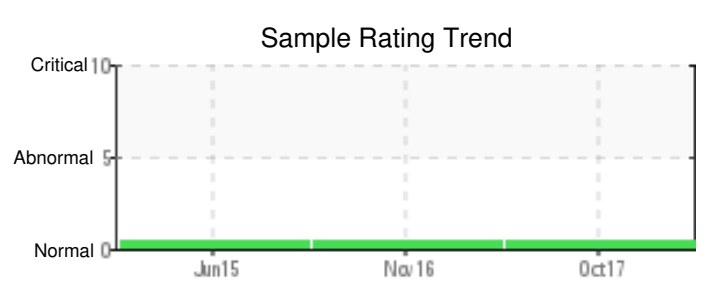
Customer: PTRHTF40101	System Information	Sample Information
STEGEMAN CV RIGASTRAAT 17 DEVENTER, Netherlands Attn: Maintenance Manager Tel: E-Mail:	System Volume: 0 gal Bulk Operating Temp: 527F / 275C Heating Source: Blanket: Fluid: SHELL FM HEAT TRANSFER FLUID 32 Make: WANSON	Lab No: 02177450 Analyst: Nikola Lukenda Sample Date: 10/10/17 Received Date: 10/23/17 Completed: 12/15/17 To discuss this report contact Nikola Lukenda at (416)347-3739

Recommendation:

Comments:

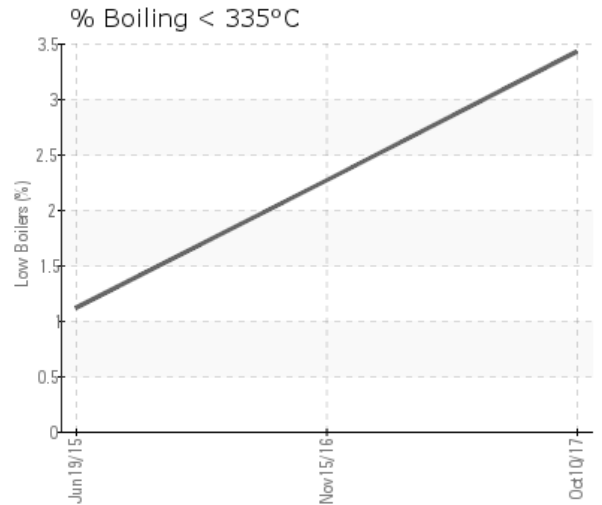
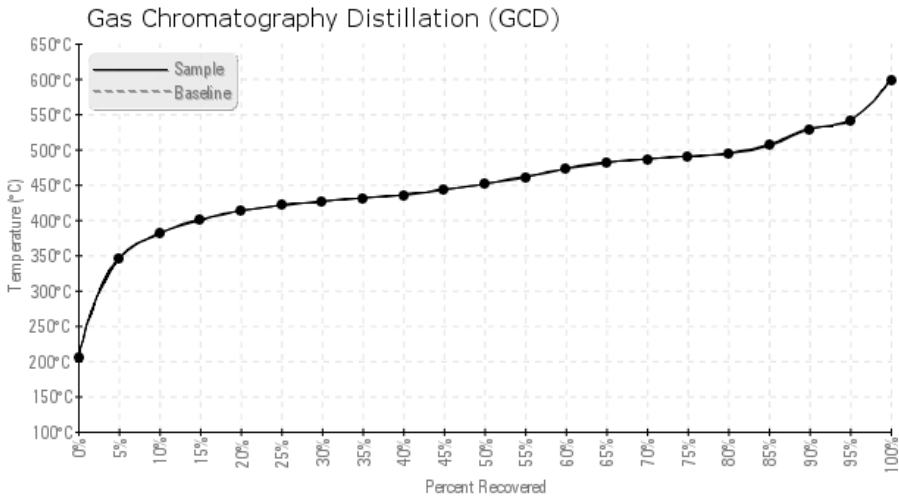
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/10/17	10/23/17	7y		403 / 206	14.9	28.8	0.51	0.037	717 / 381	844 / 451	984 / 529	3.43
11/15/16	11/24/16	5y		417 / 214	39.1	25.7	0.449	0.043	733 / 390	862 / 461	1007 / 542	2.26
06/19/15	06/25/15	4y		414 / 212	16.3	30.8	0.439	0.015	740 / 394	849 / 454	981 / 527	1.12
Baseline Data				421 / 216		35						





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
10/10/17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
06/19/15	8	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	
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	
11/15/16	Oil is not a Petro-Canada Product. Acid Number (AN) is abnormally high.
06/19/15	Product does not appear to be a Petro-Canada product.

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