

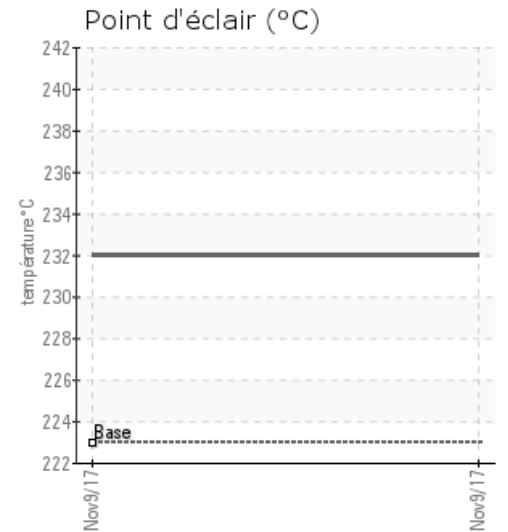
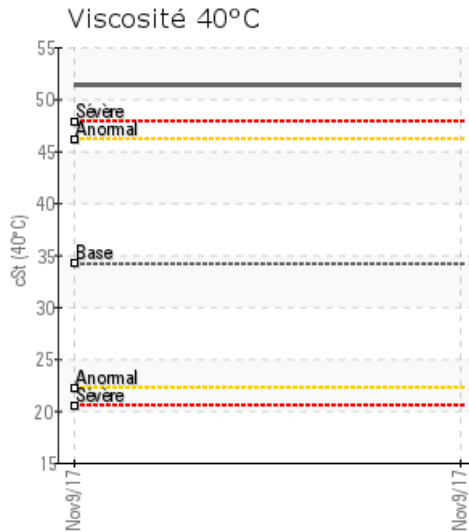
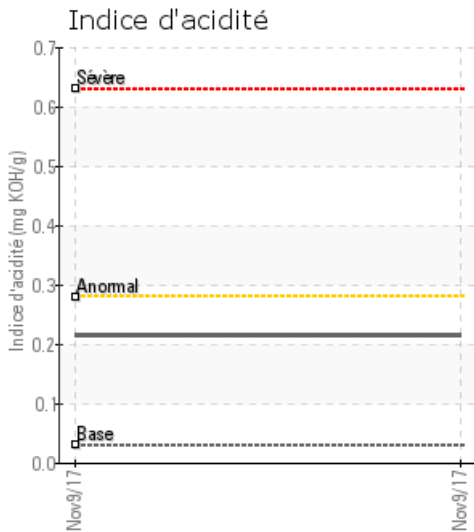
## PLANT #097 RES#1

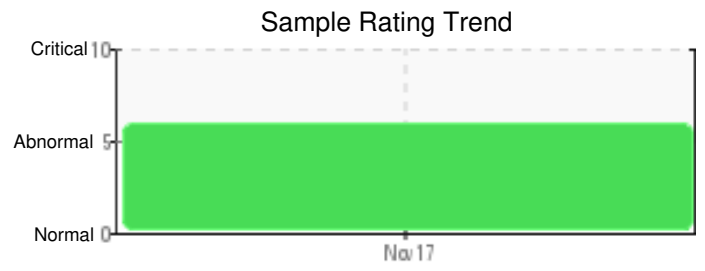
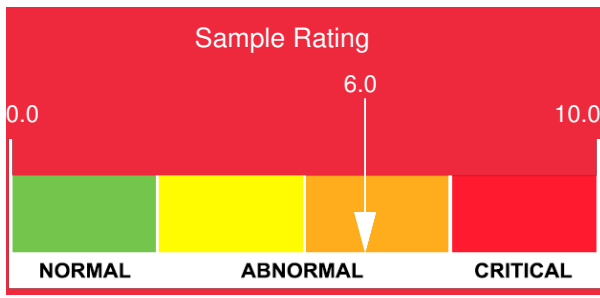
Customer: PTRHTF30091	System Information	Sample Information
PM Fabrication 17250 Cote St. Antoine Mirabel, QC J7J 2G9 Canada Attn: Guy Legault Tel: (514)771-9546 E-Mail: glegault@pmrivenord.com	System Volume: 410 ltr Bulk Operating Temp: 356F / 180C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: A.H. ASPHALT HEATING	Lab No: 02186480 Analyst: Pierre Castagne Sample Date: 11/09/17 Received Date: 12/07/17 Completed: 12/15/17 To discuss this report contact Pierre Castagne at 450-981-0693

Recommendation: Les Fractions Légères (GCD 10%) sont élevés, celle-ci abaisse le point d'éclair, augmente la pression de vapeur, abaisse la viscosité. Les Fractions lourdes (GCD 90%), augmente la viscosité, favorise les dépôts de carbone. La viscosité est hors spécification.

Comments:

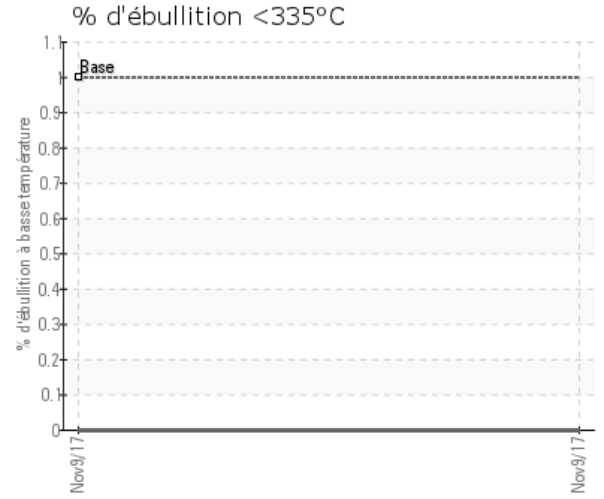
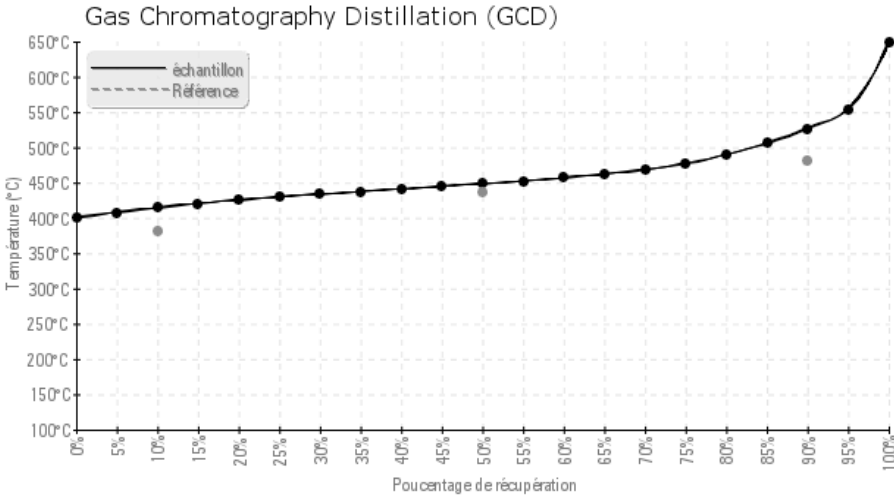
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/09/17	12/07/17	17y		450 / 232	62.8	51.4	0.215	0.299	778 / 415	839 / 449	980 / 527	0.00
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
11/09/17	50	0	0	0	2	1	0	14	0	0	1	1	0	0	0	0	0	0	0	0	14	0	1	7
<b>Baseline Data</b>			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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