

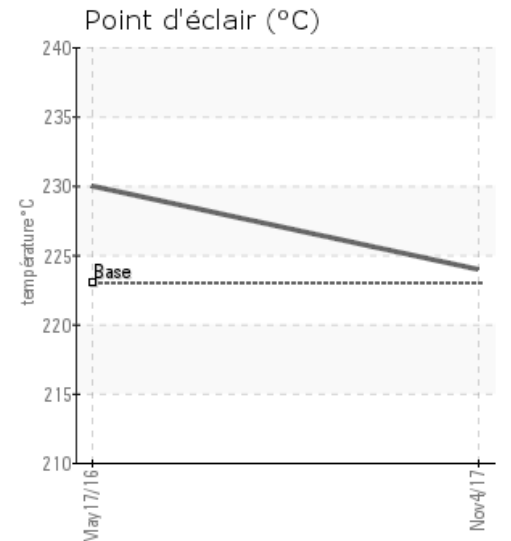
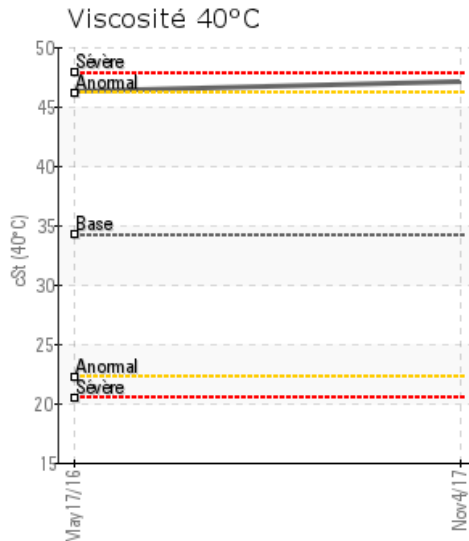
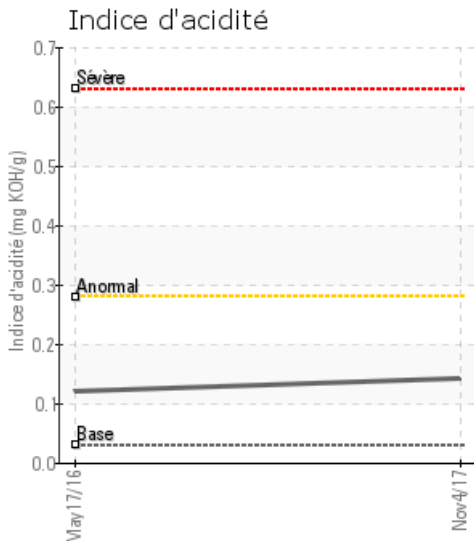
## [ST. JEROME PAF] USINE 095

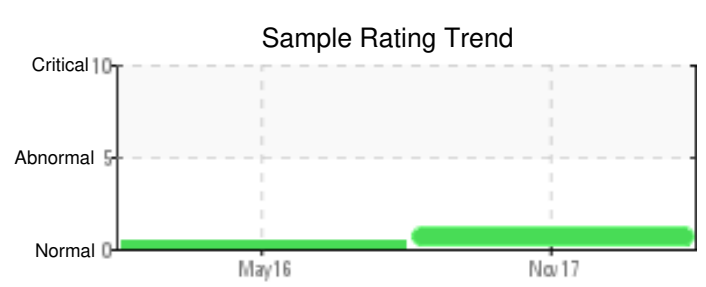
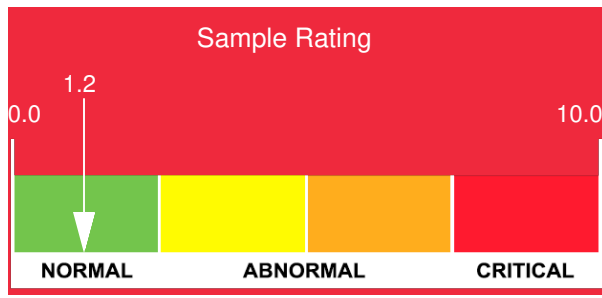
Customer: PTRHTF30091	System Information	Sample Information
PM Fabrication 17250 Cote St. Antoine Mirabel, QC J7J 2G9 Canada Attn: Guy Legault Tel: (514)771-9546 E-Mail: glegault@pmrivenord.com	System Volume: 5002 ltr Bulk Operating Temp: 338F / 170C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HNB 1961	Lab No: 02186481 Analyst: Pierre Castagne Sample Date: 11/04/17 Received Date: 12/07/17 Completed: 12/15/17 To discuss this report contact Pierre Castagne at 450-981-0693

Recommandation: Les fractions lourdes (GCD 90%) sont légèrement élevé, les fractions lourdes, augmente la viscosité, favorise les dépôts de carbone. La viscosité est hors norme.

Comments:

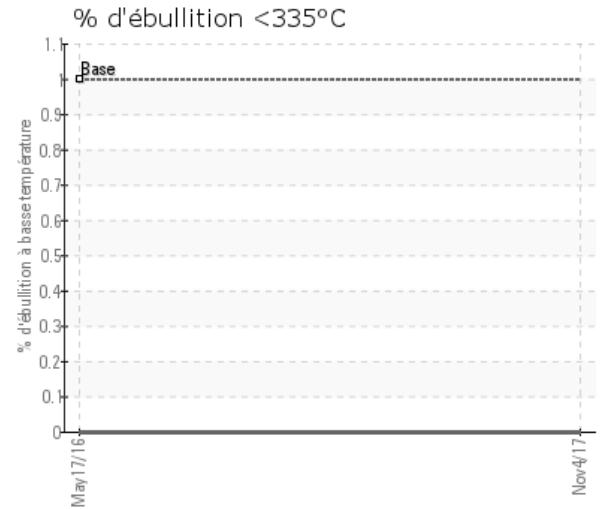
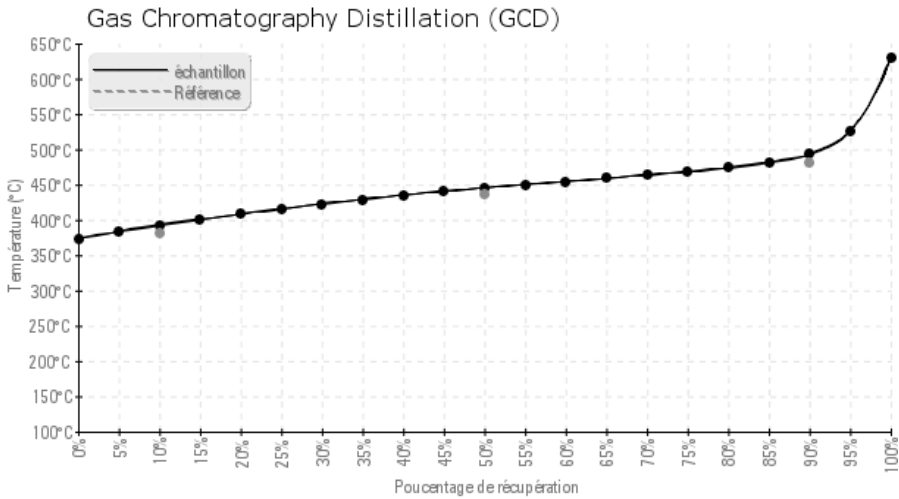
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/04/17	12/07/17	0y		435 / 224	18.1	47.1	0.142	0.078	739 / 393	834 / 446	919 / 493	0.00
05/17/16	05/19/16	1y	BALANEE A BITUME	446 / 230	5.9	46.3	0.12	0.120	721 / 383	820 / 438	957 / 514	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
11/04/17	3	0	0	0	0	0	0	5	0	1	1	1	0	0	0	0	0	0	0	0	5	0	0	3
05/17/16	3	0	0	0	0	0	0	6	0	1	1	1	0	0	0	0	0	0	0	0	6	0	0	3
<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

05/17/16	Le résultat d'analyse de cet échantillon est selon des caractères techniques du fluide de base. Prochain échantillon au début de la saison prochaine.

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