

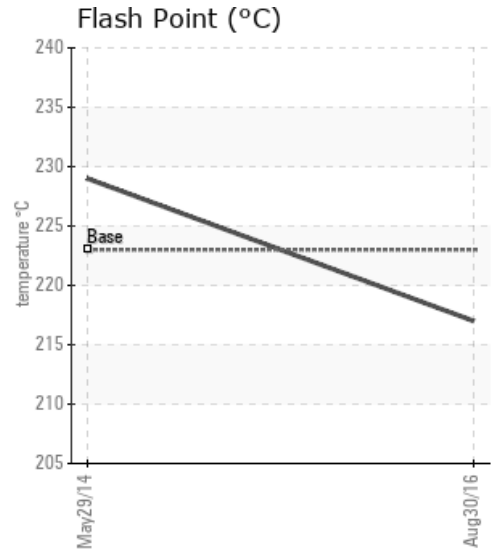
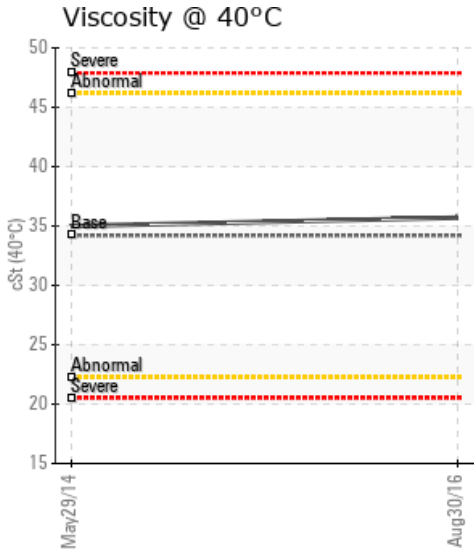
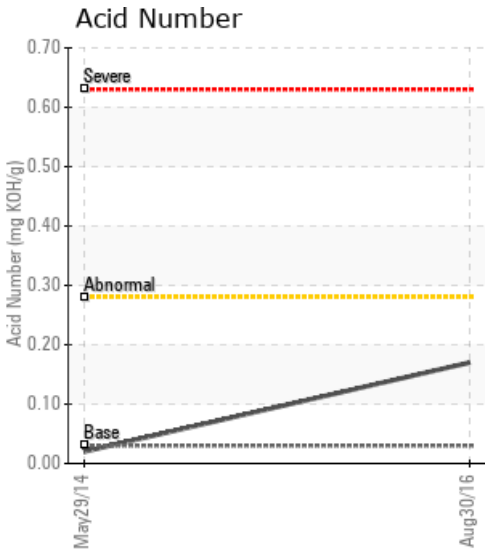
## STEB-BECANCOUR

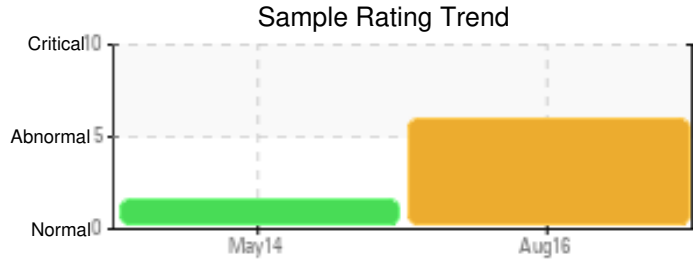
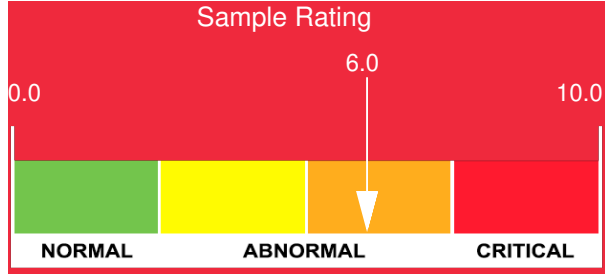
Customer: PTRHTF30075	System Information	Sample Information
McAsphalt 590 ARTHUR-SICARD BECANCOUR, QC G9H 0P5 CA Attn: Nicolas Behm Tel: (819)692-5851 E-Mail: nbehm@mcasphalt.com	System Volume: 35000 ltr Bulk Operating Temp: 464F / 240C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: TECHNI FLAMME	Lab No: 02098945 Analyst: Yves Tremblay Sample Date: 08/30/16 Received Date: 09/21/16 Completed: 09/28/16 Yves Tremblay ytremblay154@gmail.com

Recommendation: Tous les paramètres du fluide caloporteur sont selon les paramètres typiques du fluide PetroTherm. Reprendre un échantillon à l'intervalle normal.

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	%
08/30/16	09/21/16	27.0m	SALLES DES BOUILLOIR	423 / 217	63.4	35.7	0.17	0.166	720 / 382	812 / 433	905 / 485	0.49
05/29/14	05/30/14	1.0m	SAMPLE POINT	444 / 229	0.00	35.0	0.02	0.029	720 / 382	810 / 432	905 / 485	0.47
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00

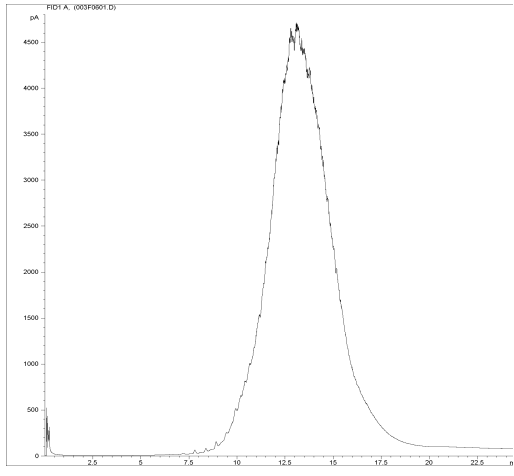




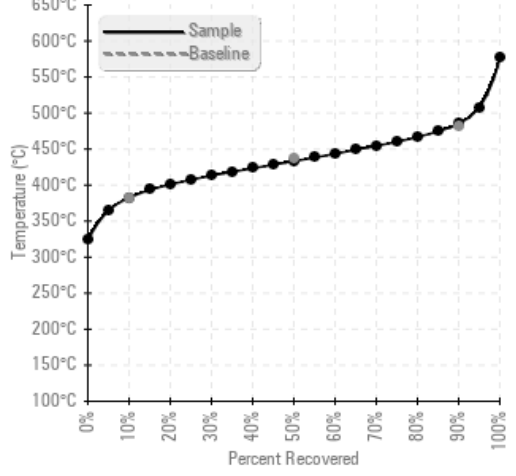
Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
08/30/16	8	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/29/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	1
Baseline Data			0	0						0			0	0				0				0		

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

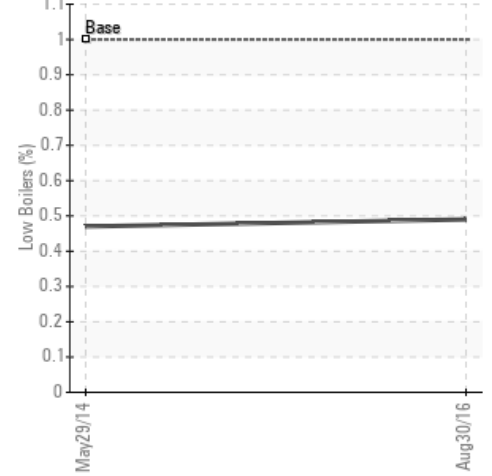
GCD Spectrum



Gas Chromatography Distillation



% Boiling < 335°C



Historical Comments

05/29/14	Tous les paramètres sont normaux. L'huile Petro-therm est en très bon état et peut demeurer en service jusqu'au prochain échantillonnage. Nous recommandons d'échantillonner à nouveau dans 12 mois.

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