

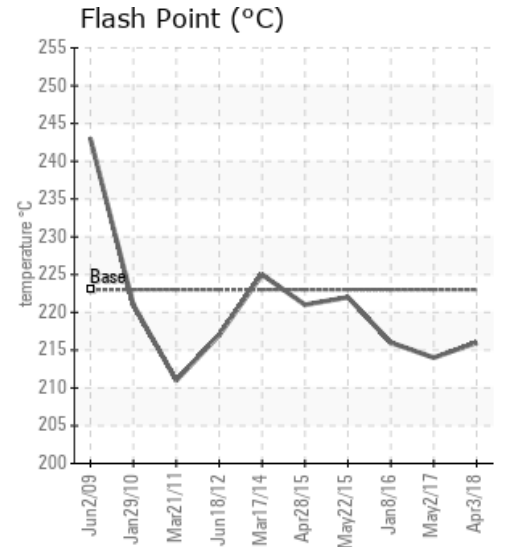
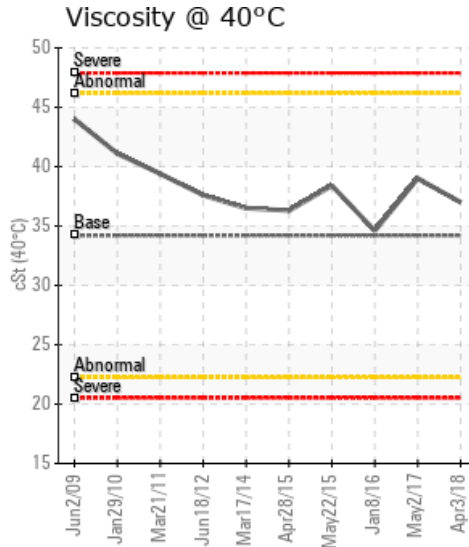
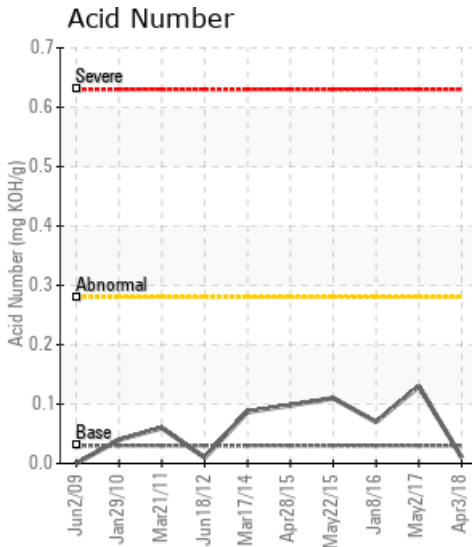
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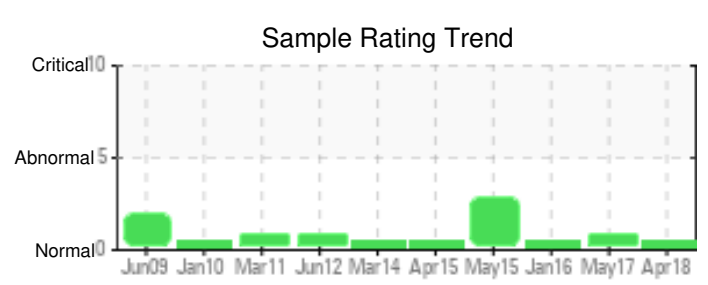
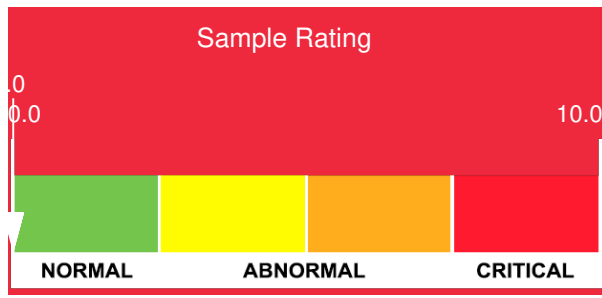
Customer: PTRHTF30038	System Information	Sample Information
BUILDING PRODUCTS OF CANADA 9510 ST PATRICK STREET LASALLE, QC H8R 1R9 CANADA Attn: Samuel Denault Tel: (514)364-7550 E-Mail: SDENAULT@BPCAN.COM	System Volume: 1215 ltr Bulk Operating Temp: 489F / 254C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: ACME	Lab No: 02214061 Analyst: Pierre Castagne Sample Date: 04/03/18 Received Date: 05/03/18 Completed: 05/07/18 To discuss this report contact Pierre Castagne at 450-981-0693

Recommendation: Il y a une trace de bitume (asphalt) dans l'huile. Reprendre un échantillon à intervalle normal

Comments:

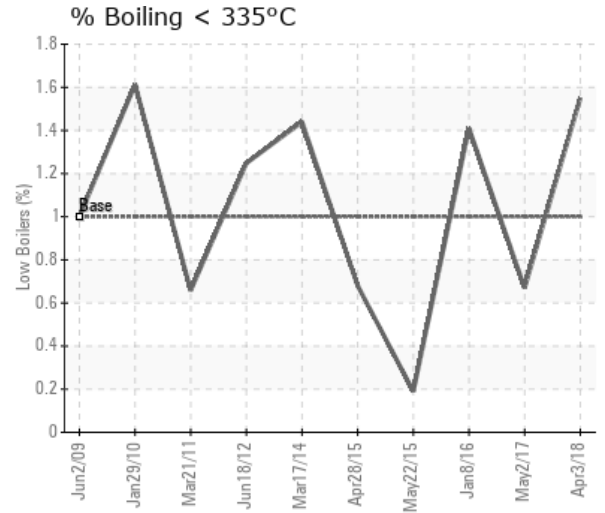
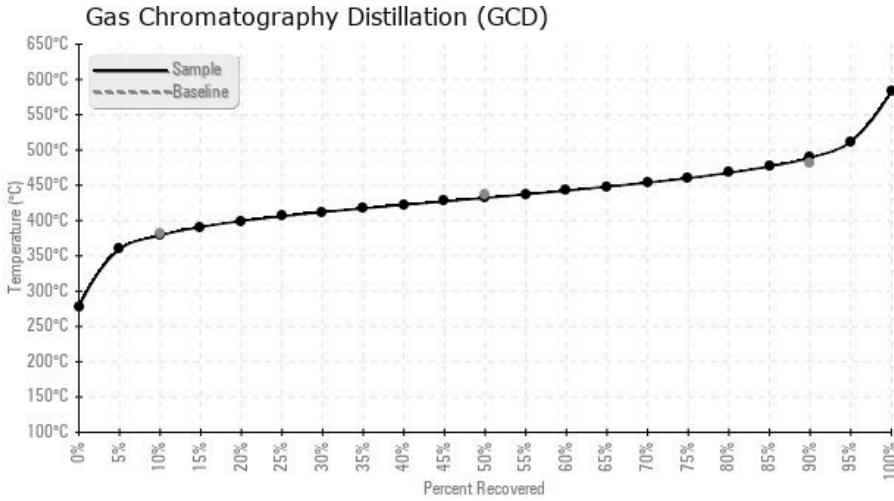
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/03/18	05/03/18	0y		421 / 216	16.8	37.0	0.01	0.262	714 / 379	810 / 432	912 / 489	1.55
05/02/17	05/12/17	0y	ENTREE DE LA POMPE	417 / 214	9.1	39.0	0.130	0.312	726 / 386	821 / 439	929 / 499	0.67
01/08/16	01/15/16	0y		421 / 216	61.3	34.6	0.07	0.258	714 / 379	811 / 433	917 / 491	1.41
05/22/15	05/26/15	1y	VALVES AUX ENTREE	432 / 222	9.1	38.4	0.11	0.302	755 / 401	841 / 450	951 / 511	0.19
04/28/15	05/01/15	1y	VLVE ENT PP SUCCION	430 / 221	22.0	36.3	0.098	0.044	705 / 374	804 / 429	922 / 494	0.68
03/17/14	03/21/14	1y		437 / 225	17.4	36.5	0.087	0.150	712 / 378	817 / 436	925 / 496	1.44
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
04/03/18	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/02/17	0	0	1	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
01/08/16	0	0	1	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0
05/22/15	0	0	2	0	0	0	0	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	1	0
04/28/15	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
03/17/14	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	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	
05/02/17	Il y a présence d'asphalte dans l'échantillon, les Fractions Lourdes GCD @90% sont élevés, une augmentation des Fractions Lourdes engendre une augmentation de la viscosité et favorise la formation de dépôt de carbone. (GCD) 90% Distillation Point is abnormally high.
01/08/16	Nous remarquons une présence de Vanadium, ce qui indique une contamination avec de l'asphalte. Nous remarquons un taux soufre élevé, vérifier les sources de contamination et reprendre un échantillon.
05/22/15	Il ya contamination par asphalte (goudron). Les fractions lourdes (GCD@90%) sont très élevés (favorise les dépôts de carbone), les fractions légères sont élevés, il ya début de craquage de l'huile thermique. Nous recommandons de filtrer l'huile thermique. (GCD) 90% Distillation Point is severely high. (GCD) 10% Distillation Point is marginally high.
04/28/15	Les fractions lourdes sont légèrement élevés (GCD 90%) (GCD) 90% Distillation Point is marginally high.
03/17/14	Les propriétés de l'huile semblent normales. SVP continuez à échantillonner les systèmes régulièrement (GCD) 90% Distillation Point is marginally high.

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