

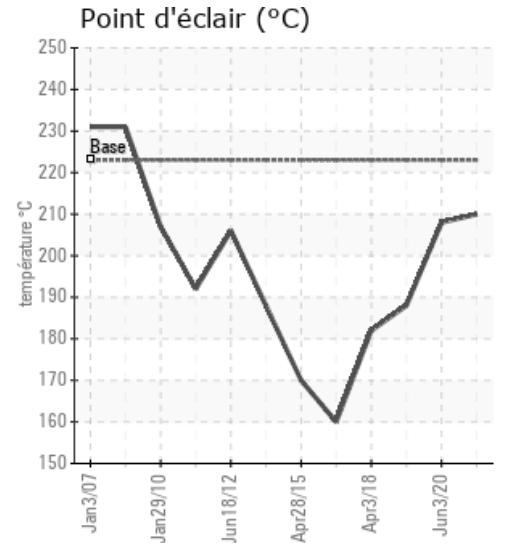
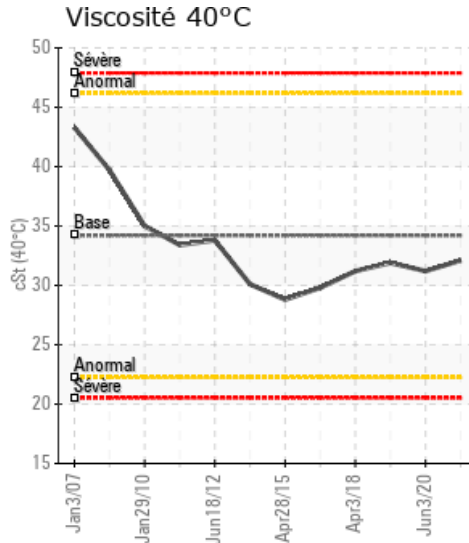
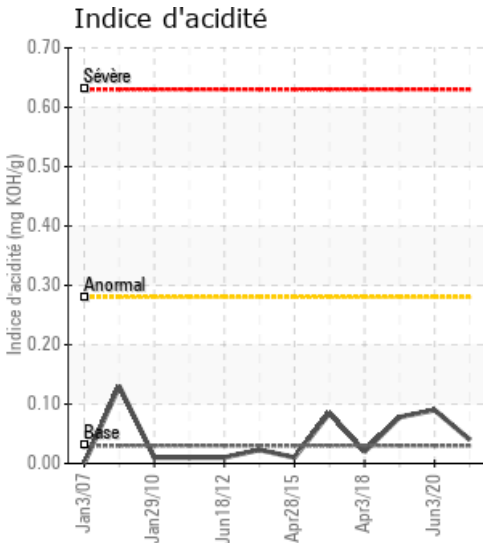
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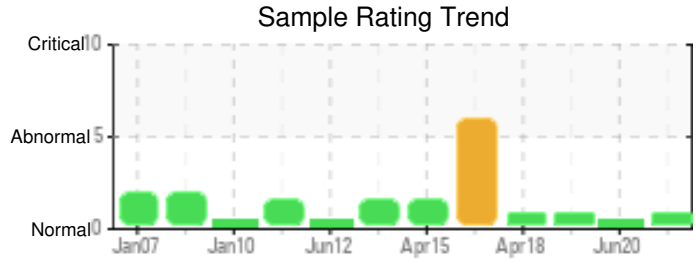
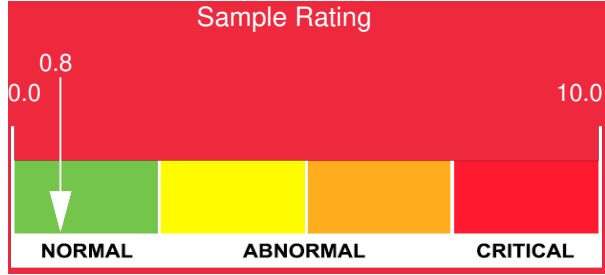
Customer: PTRHTF30038	System Information	Sample Information
BUILDING PRODUCTS OF CANADA 9510 ST PATRICK STREET LASALLE, QC H8R 1R9 Canada Attn: E Daneau Tel: E-Mail: edaneau@bpcan.com	System Volume: 1215 ltr Bulk Operating Temp: 302F / 150C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: FULTON	Lab No: 02411580 Analyst: Jean Lacharite Sample Date: 03/18/21 Received Date: 03/26/21 Completed: 04/14/21 Jean Lacharite jean.lacharite@hollyfrontier.com

Recommendation: results are good, continue the operation.

Comments:

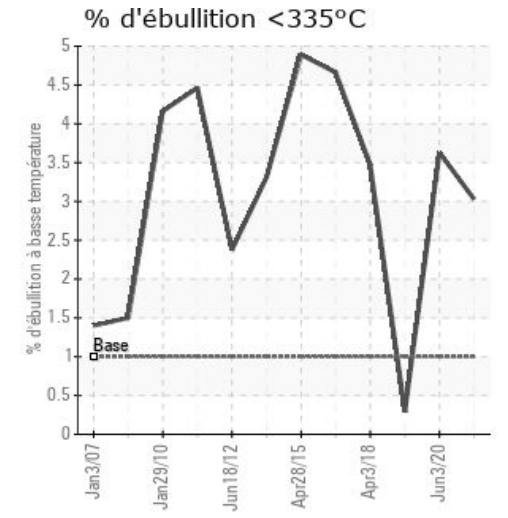
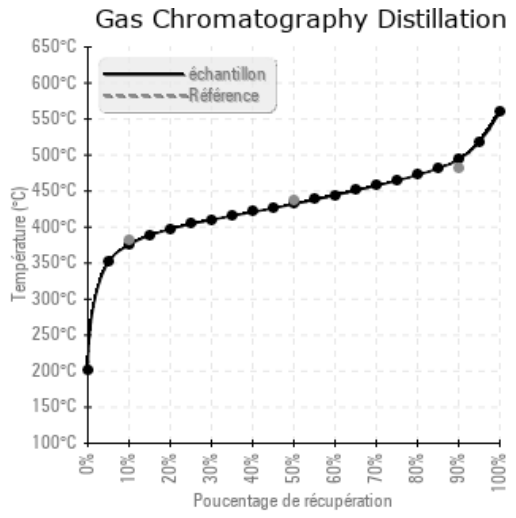
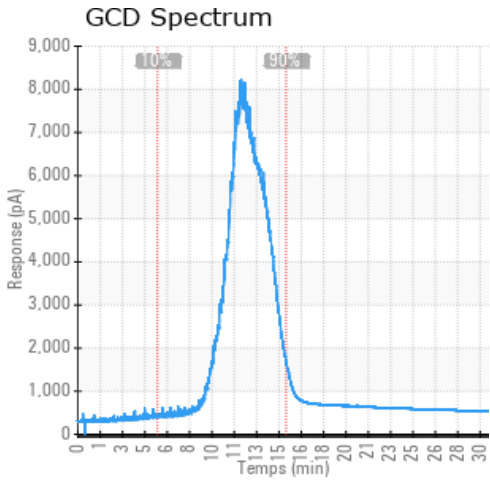
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/18/21	03/26/21	0.0m	dans le circuit	410 / 210	10.1	32.1	0.04	0.052	708 / 376	809 / 432	921 / 494	3.03
06/03/20	06/04/20	3.0m	DANS LE CIRCUIT	406 / 208	24.1	31.2	0.09	0.084	702 / 372	807 / 431	908 / 486	3.63
09/12/18	09/17/18	0.0m		370 / 188	11.9	31.9	0.078	0.046	714 / 379	805 / 430	913 / 490	0.29
04/03/18	05/03/18	0.0m		360 / 182	14.2	31.2	0.02	0.039	696 / 369	806 / 430	915 / 491	3.47
05/02/17	05/12/17	0.0m	ENTREE DE LA POMPE	320 / 160	5.1	29.8	0.085	0.033	688 / 364	806 / 430	958 / 514	4.66
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
03/18/21	10	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0
06/03/20	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/18	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/03/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/02/17	4	0	0	0	0	11	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	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	
06/03/20	L'huile est OK, reprendre un échantillon à la date prévue.
09/12/18	Le point éclair est bas. Le fluide est ok pour usage continu. COC Flash Point is marginally low.
04/03/18	Le point éclair est marginalement faible, reprendre un échantillon dans 3 mois. COC Flash Point is marginally low.
05/02/17	Les Fractions Légères (GCD@10%) sont basses, une diminution des Fractions Légères engendre un abaissement du point éclair (de 160°C versus 223°C), abaisse la viscosité. 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. Il y a un début de dégradation thermique du fluide caloporteur. On note la présence de plomb dans l'échantillon.

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