

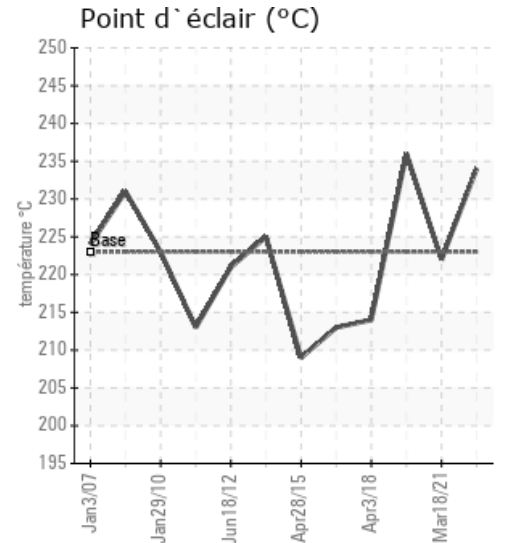
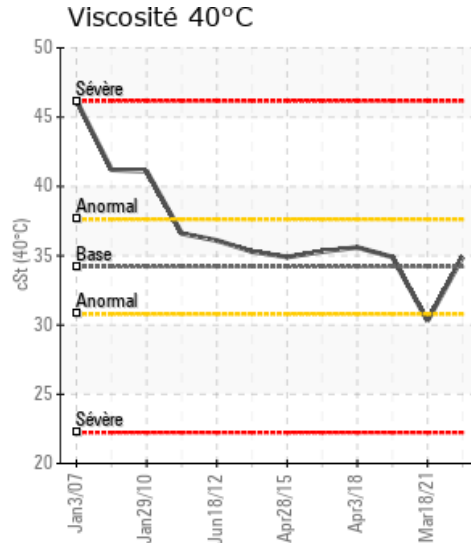
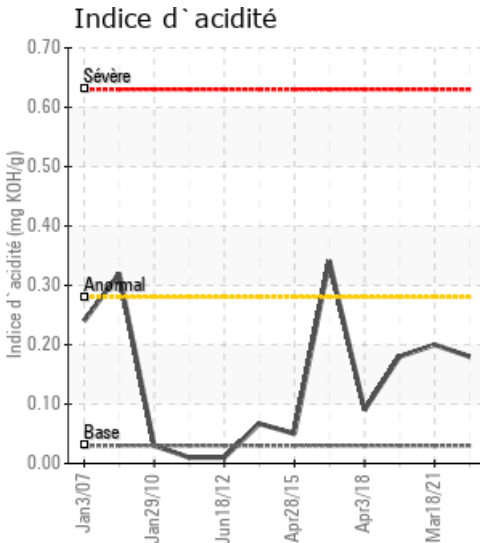
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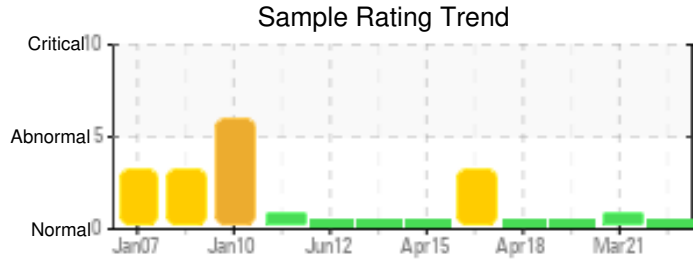
Customer: PTRHTF30038	System Information	Sample Information
BUILDING PRODUCTS OF CANADA 9510 ST PATRICK STREET LASALLE, QC H8R 1R9 CA Attn: Marc Legault Tel: (514)364-7586 E-Mail: mlegault@bpcan.com	System Volume: 1215 ltr Bulk Operating Temp: 238F / 114C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: ACME	Lab No: 02595916 Analyst: Jean Lacharite Sample Date: 10/31/23 Received Date: 11/13/23 Completed: 11/15/23 Jean Lacharite jean.lacharite@HFSinclair.com

Recommendation: results are normal for wear, AN, viscosity, insolubles and GCD 10, 50, 90%. GCD graphic is good. continue the operation.

Comments:

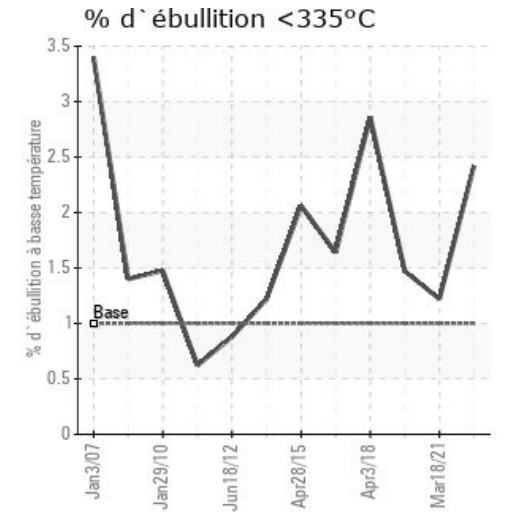
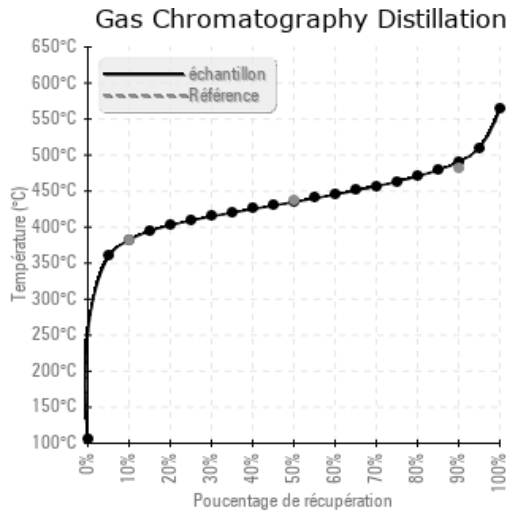
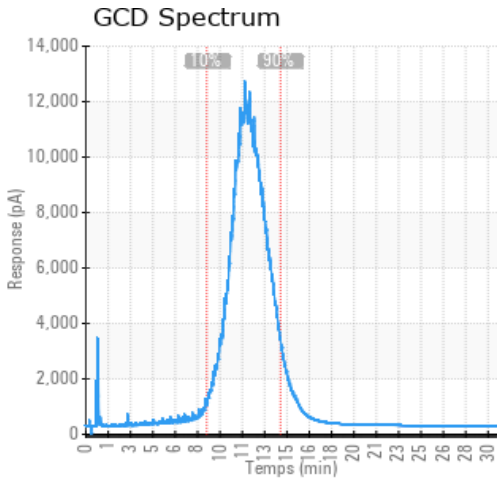
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/31/23	11/13/23	0.0m	DANS LE CIRCUIT	453 / 234	0.00	34.9	0.18	0.067	720 / 382	815 / 435	915 / 491	2.42
03/18/21	03/26/21	0.0m	dans le circuit	432 / 222	8.1	30.3	0.20	0.080	715 / 380	810 / 432	923 / 495	1.22
06/03/20	06/04/20	3.0m	CIRCUIT	457 / 236	6.9	34.9	0.18	0.123	715 / 380	807 / 431	896 / 480	1.47
04/03/18	05/03/18	0.0m		417 / 214	4.8	35.6	0.09	0.250	700 / 371	803 / 428	910 / 488	2.86
05/02/17	05/12/17	0.0m	LIGNE DE PRESSION	415 / 213	17.2	35.3	0.341	0.149	714 / 379	815 / 435	926 / 497	1.64
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
10/31/23	2	0	0	3	0	2	0	0	0	0	8	1	0	0	0	0	0	0	0	0	4	0	0	0
03/18/21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
06/03/20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/03/18	2	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	1	0	0	0	0	0	0	0	0	0	0	0	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	
03/18/21	results are good, continue the operation.
06/03/20	Il y a présence de soufre, assurez-vous de faire tout transvasage du fluide caloporteur à partir d'une pompe dédiée à cet effet. L'huile est OK, pour usage continue. Reprendre un échantillon à la date prévue.
04/03/18	Reprendre un échantillon à intervalle normal.
05/02/17	L'acidité est élevée, 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. Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is marginally high.

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