

1X15-CH-01

Customer: PTRHTF30038
 BUILDING PRODUCTS OF CANADA
 9510 ST PATRICK STREET
 LASALLE, QC H8R 1R9 CA
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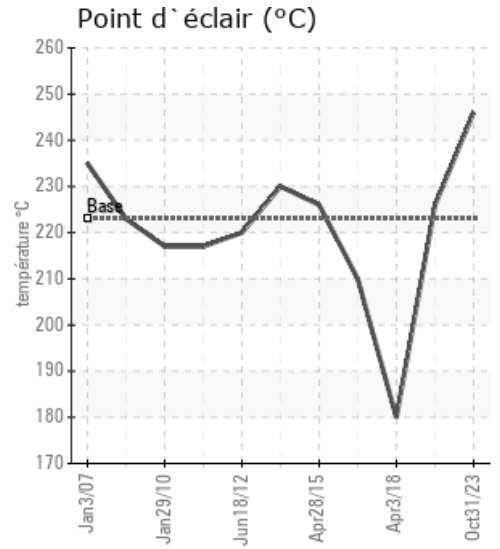
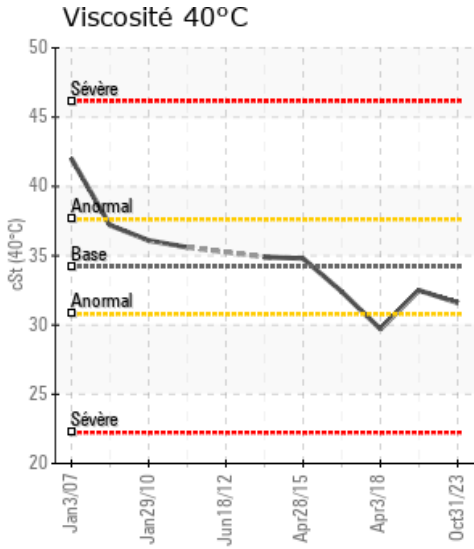
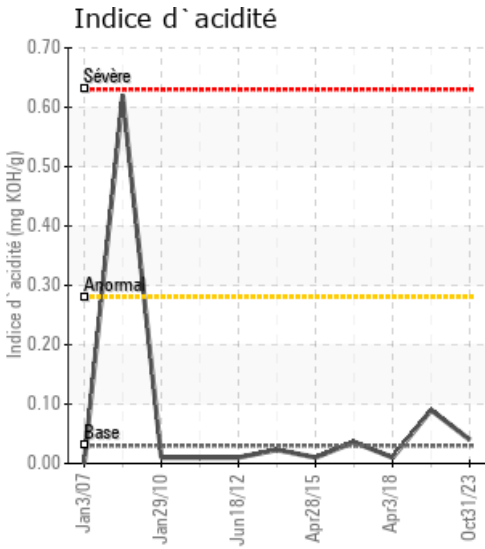
System Information
 System Volume: 405 ltr
 Bulk Operating Temp: 227F / 108C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: CHROMALOX

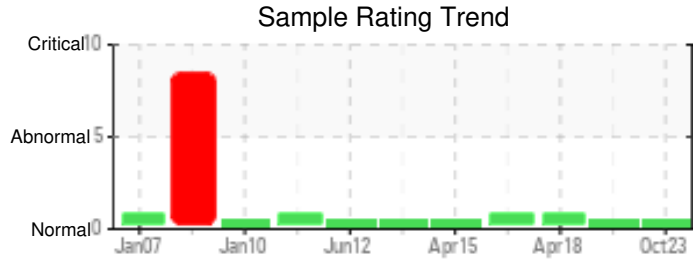
Sample Information
 Lab No: 02595921
 Analyst: Jean Lacharite
 Sample Date: 10/31/23
 Received Date: 11/13/23
 Completed: 11/16/23
 Jean Lacharite
 jean.lacharite@HFSinclair.com

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

Comments:

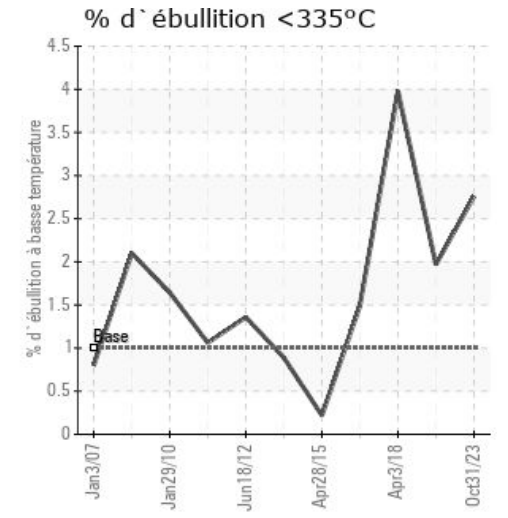
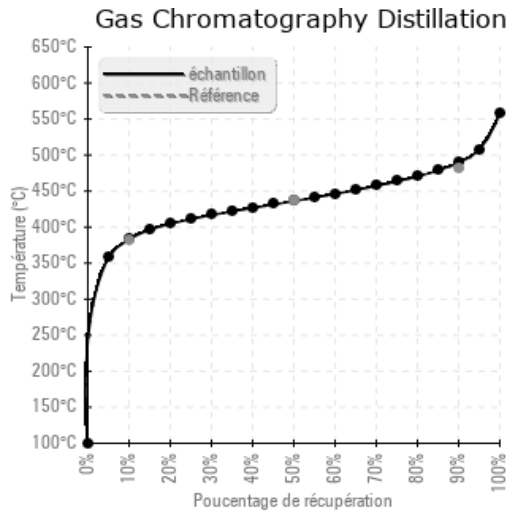
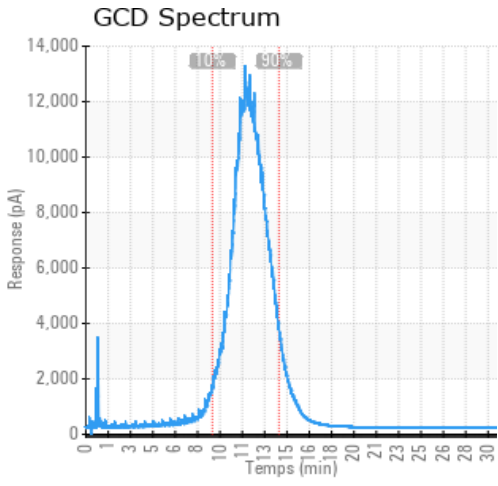
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/31/23	11/13/23	0.0m	DANS LE CIRCUIT	475 / 246	14.3	31.6	0.04	0.038	721 / 383	817 / 436	913 / 489	2.76
06/03/20	06/04/20	3.0m	CIRCUIT	439 / 226	84.4	32.5	0.09	0.081	715 / 380	807 / 430	891 / 477	1.97
04/03/18	05/03/18	0.0m		356 / 180	8.9	29.7	0.01	0.043	699 / 371	810 / 432	911 / 488	3.98
05/02/17	05/12/17	0.0m	LIGNE DE PRESSION	410 / 210	12.1	32.4	0.036	0.026	712 / 378	811 / 433	924 / 496	1.49
04/28/15	05/01/15	1.0m	VLV SUR TUYAN ENTR P	439 / 226	9.6	34.8	0.01	0.033	721 / 383	815 / 435	926 / 497	0.22
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/03/20	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7	0	0	6
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	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
04/28/15	0	0	0	0	0	0	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	Il y a présence de soufre dans l'huile, assurez-vous de faire tout transvasage du fluide caloporteur à partir d'une pompe dédiée à cet effet. L'huile est OK, pour usage continu. Reprendre un échantillon à la date prévue.
04/03/18	Le point éclair est marginalement faible, reprendre un échantillon dans 3 mois. COC Flash Point is marginally low.
05/02/17	On note une légère augmentation des Fractions Lourdes (GCD @90%), une augmentation des Fractions Lourdes engendre une augmentation de la viscosité et favorise la formation de dépôt de carbone. (GCD) 90% Distillation Point is marginally high.
04/28/15	Les fractions lourdes sont légèrement élevées (GCD 90%) (GCD) 90% Distillation Point is marginally high.

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