

1X62-CH-01

Customer: PTRHTF30038
 BUILDING PRODUCTS OF CANADA
 9510 ST PATRICK STREET
 LASALLE, QC H8R 1R9 CA
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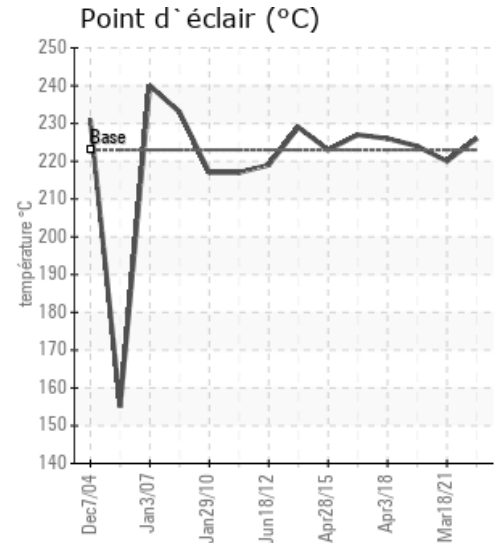
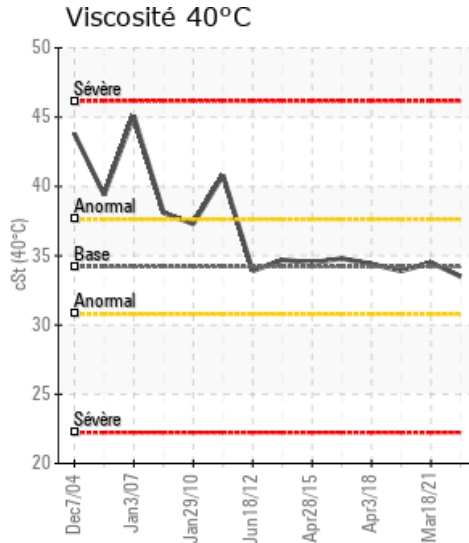
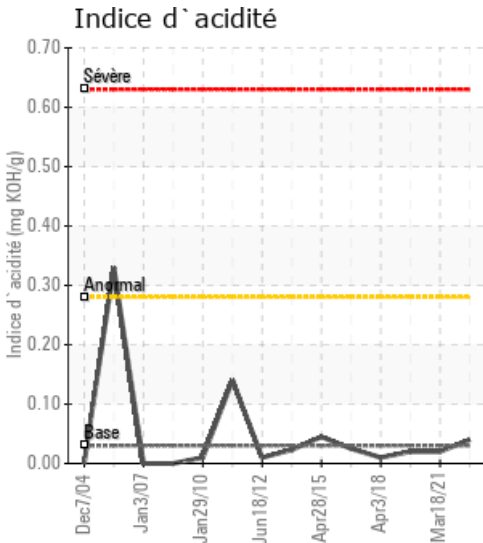
System Information
 System Volume: 1215 ltr
 Bulk Operating Temp: 227F / 108C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: CHROMALOX

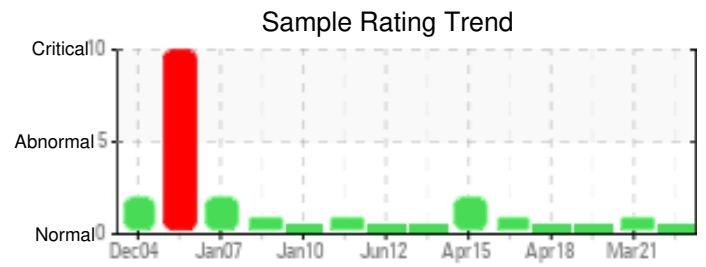
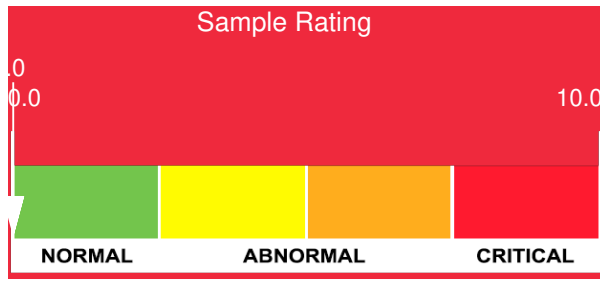
Sample Information
 Lab No: 02595915
 Analyst: Jean Lacharite
 Sample Date: 10/31/23
 Received Date: 11/13/23
 Completed: 11/15/23
 Jean Lacharite
 jean.lacharite@HFSinclair.com

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

Comments:

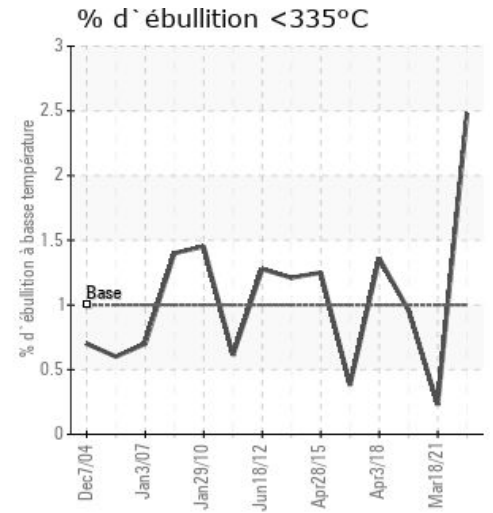
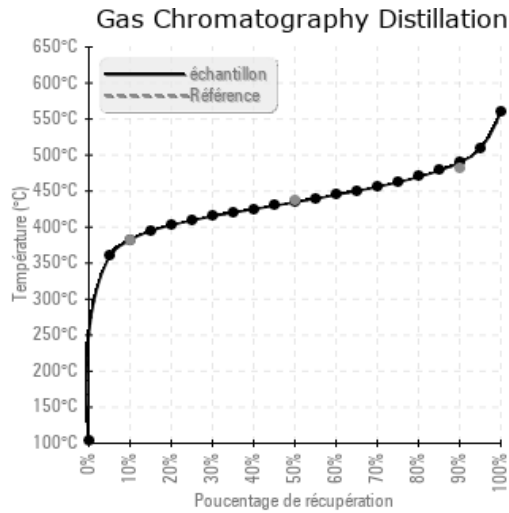
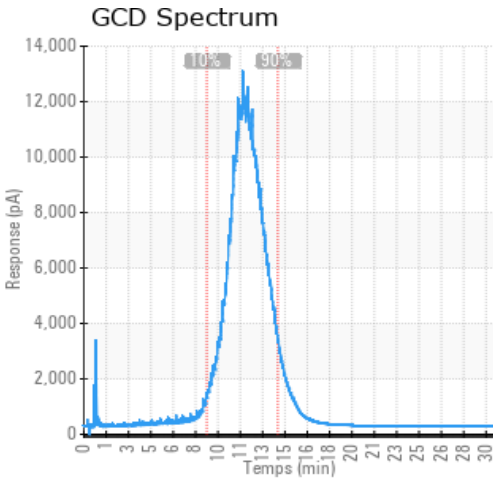
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/31/23	11/13/23	0.0m	DANS LE CIRCUIT	439 / 226	11.5	33.5	0.04	0.040	720 / 382	814 / 435	913 / 490	2.48
03/18/21	03/26/21	0.0m	dans le circuit	428 / 220	9.8	34.5	0.02	0.030	724 / 384	814 / 435	927 / 497	0.23
06/03/20	06/04/20	3.0m	CIRCUIT	435 / 224	50.5	33.9	0.02	0.058	724 / 385	810 / 432	895 / 479	0.96
04/03/18	05/03/18	0.0m		439 / 226	8.0	34.4	0.01	0.041	717 / 381	811 / 433	904 / 485	1.36
05/02/17	05/12/17	0.0m	ENTREE DE LA POMPE	441 / 227	11.8	34.8	0.025	0.021	724 / 385	816 / 435	926 / 496	0.38
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
03/18/21	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/03/20	0	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	1	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/02/17	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

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	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.

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