

## 2X62-CH-01

**Customer: PTRHTF30038**  
 BUILDING PRODUCTS OF CANADA  
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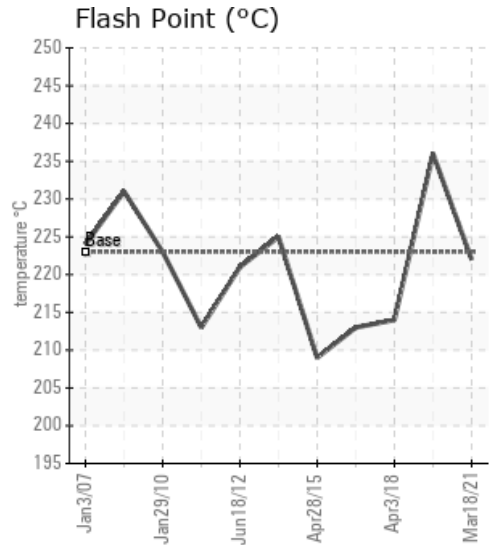
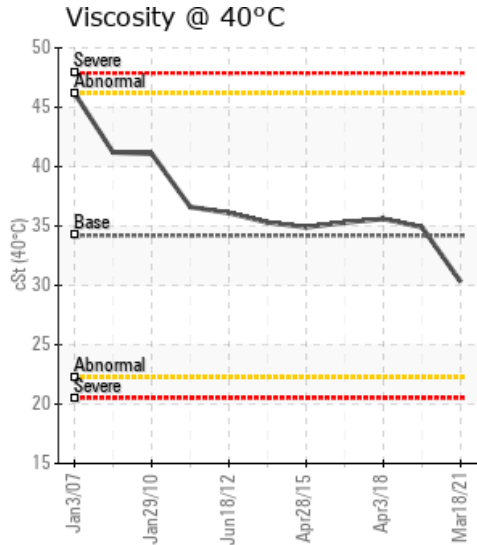
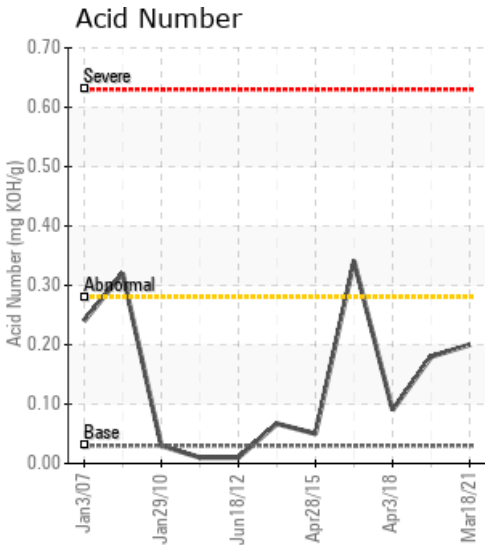
**System Information**  
 System Volume: 1215 ltr  
 Bulk Operating Temp: 238F / 114C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PETRO-THERM  
 Make: ACME

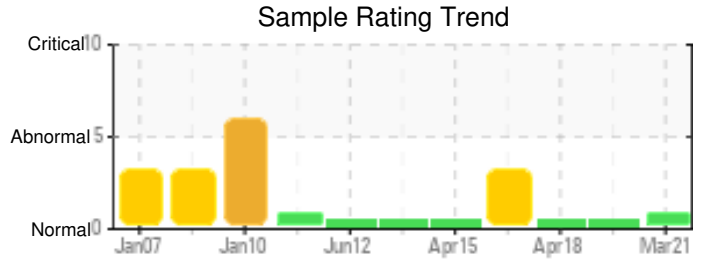
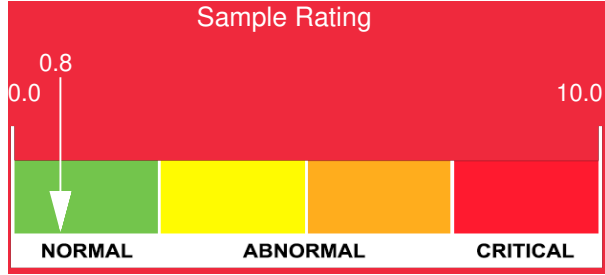
**Sample Information**  
 Lab No: 02411582  
 Analyst: Jean Lacharite  
 Sample Date: 03/18/21  
 Received Date: 03/26/21  
 Completed: 04/15/21  
 Jean Lacharite  
 jean.lacharite@hollyfrontier.com

Recommendation: results are good, continue the operation.

Comments:

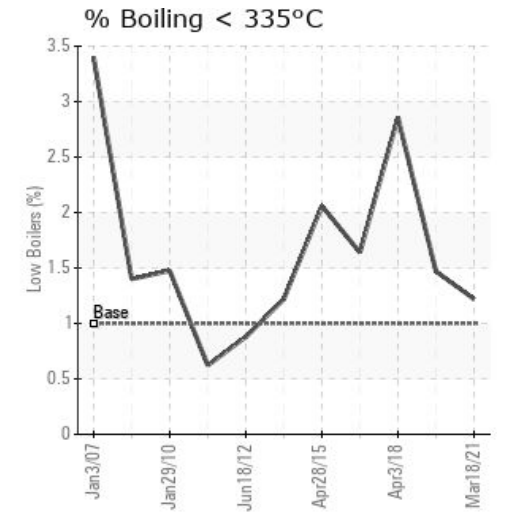
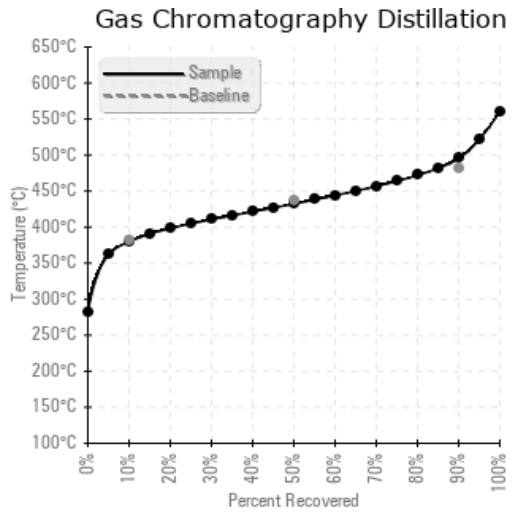
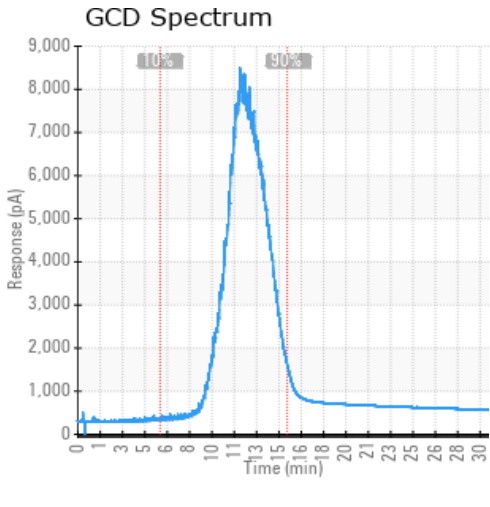
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/18/21	03/26/21	0.0m	dans le circuit	432 / 222	8.1	30.3	0.20	0.080	715 / 380	810 / 432	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
04/28/15	05/01/15	1.0m	VLV SUR TUYAN ENT PP	408 / 209	6.7	34.9	0.05	0.082	706 / 375	809 / 432	923 / 495	2.06
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	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	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	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	0
04/28/15	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Baseline Data</b>			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, 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.
04/28/15	Les fractions lourdes sont légèrement élevés (GCD 90%) (GCD) 90% Distillation Point is marginally high.

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