

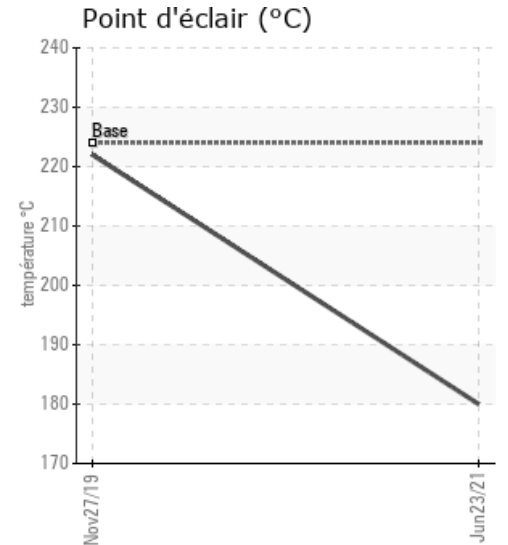
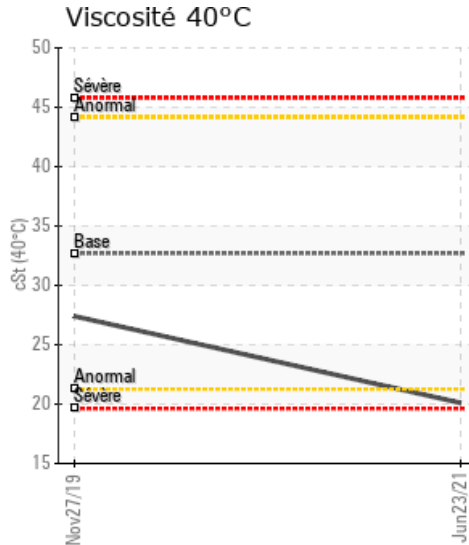
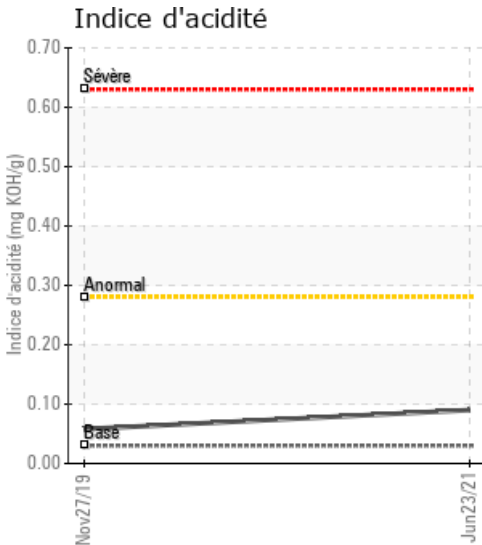
FOURNAISSE

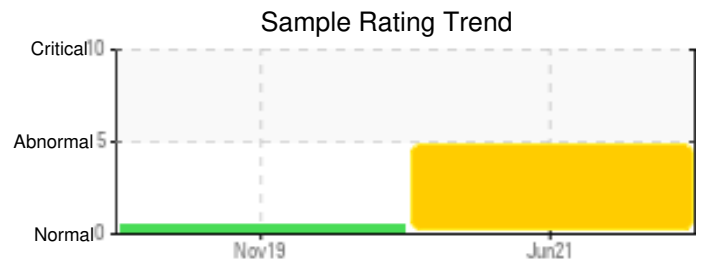
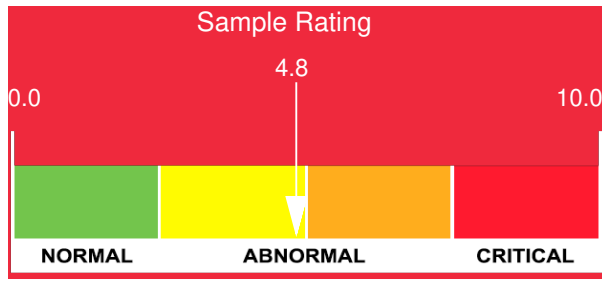
Customer: PTRHTF30143	System Information	Sample Information
E.I. Dupont Canada Thetford 1045 rue Monfette N. Thetford Mines, QC G6G 7K7 Canada Attn: John Parra Tel: (418)334-1482 E-Mail: john.parra@dupont.com	System Volume: 2255 ltr Bulk Operating Temp: 338F / 170C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: BRETON	Lab No: 02430503 Analyst: Jean Lacharite Sample Date: 06/23/21 Received Date: 07/02/21 Completed: 07/21/21 Jean Lacharite jean.lacharige@hollyfrontier.com

Recommandation: La viscosite de l'huile Calflo AF est de 32.3 cSt @40°C, la viscosite de votre huile est 20.1 cSt @40°C. Le point initial d'ebullition est tres bas à 74.2°C. Les fractions legeres (GCD @ 10%) sont 294.1 , le point eclair (COC Flash point) est 180°C il devrait etre à 224°C. Il ya degradation thermique du fluide. Nous vous recommandons de ventiller le systeme, nous vous recommandons de vidanger entre 15 et 20 % du fluide et de le remplacer avec une nouvelle charge de l'huile Calflo AF.

Comments:

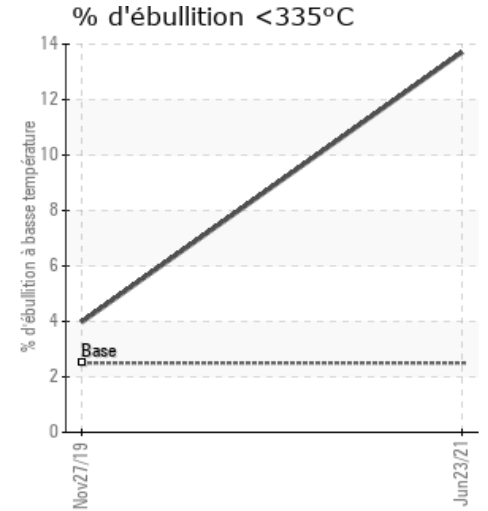
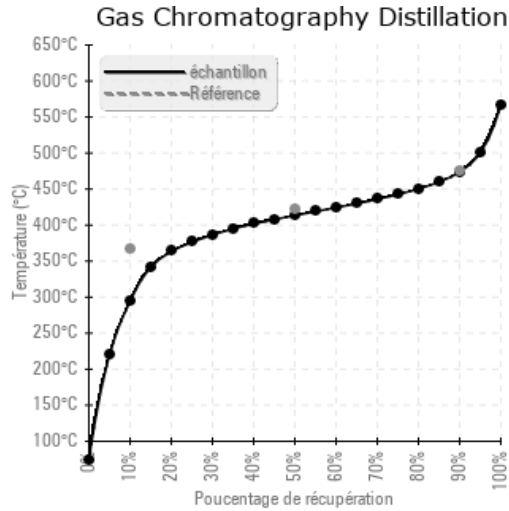
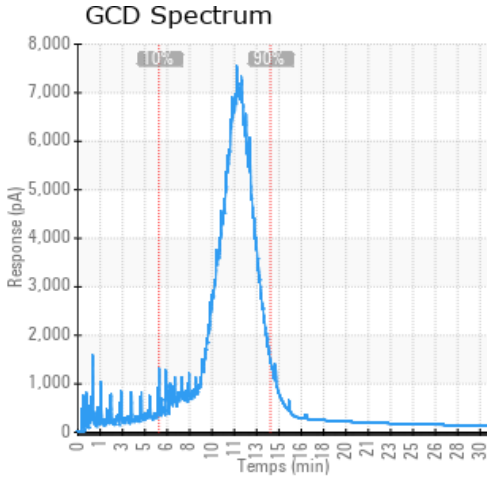
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/23/21	07/02/21	0.1d	20 minutes on oil	356 / 180	14.3	20.1	0.09	0.169	561 / 294	776 / 414	885 / 474	13.71
11/27/19	12/04/19	3.0d	PUMP EXIT	432 / 222	0.00	27.4	0.058	0.101	680 / 360	786 / 419	893 / 479	3.97
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
06/23/21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	0
11/27/19	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	200	2
Baseline Data			0	0						0			0	0					0				270	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments

11/27/19	La viscosité à 40C (27.4 cSt) est légèrement sous la plage de ISO VG32 (+/- 10%) (28.8 - 35.2 cSt). Ceci peut être due à une présence du fluide de rinçage dans la tubulure du système caloporteur ou à un mélange avec un autre fluide. Le fluide est OK, pour usage continue.

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.