

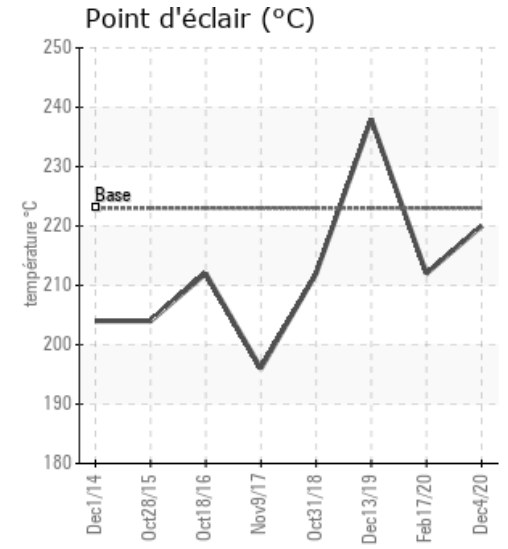
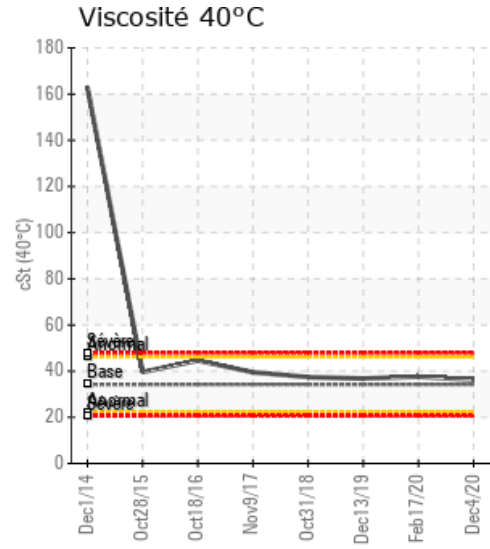
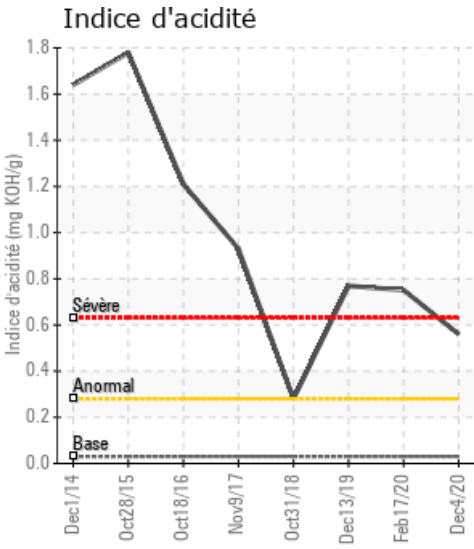
ALI EXCAVATION

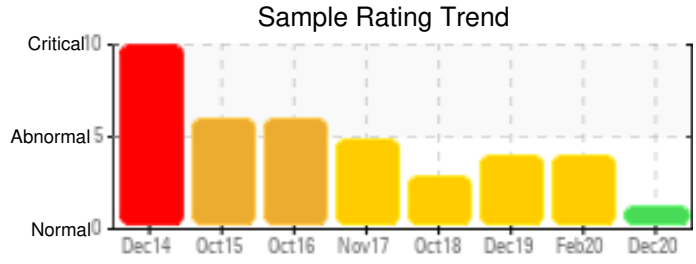
Customer: PTRHTF30079	System Information	Sample Information
ALI EXCAVATION INC. 760 BD DES ERABLES VALLEYFIELD, QC J6T 6G4 Canada Attn: Normand Loiselle Tel: (450)288-3514 E-Mail:	System Volume: 4500 ltr Bulk Operating Temp: 430F / 221C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: GENCOR	Lab No: 02394133 Analyst: Pierre Castagne Sample Date: 12/04/20 Received Date: 12/21/20 Completed: 01/11/21 Pierre Castagne pierre.castagne@petrocanadalsp.com

Recommendation: Ok, Pour usage continue.

Comments:

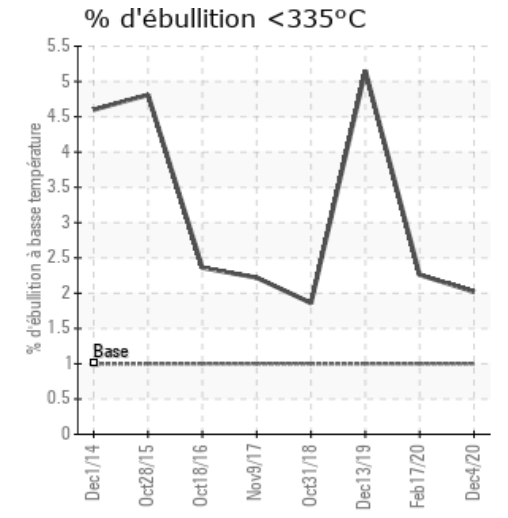
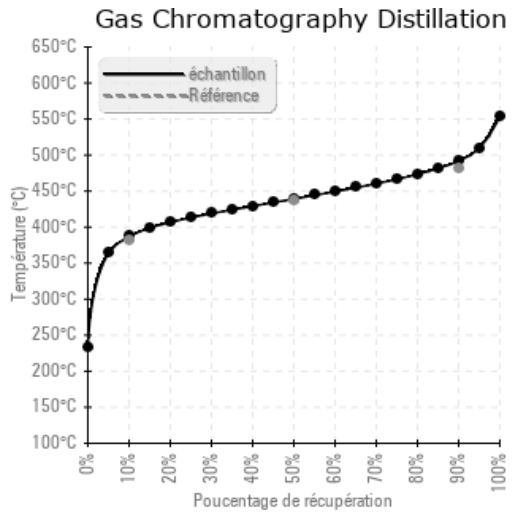
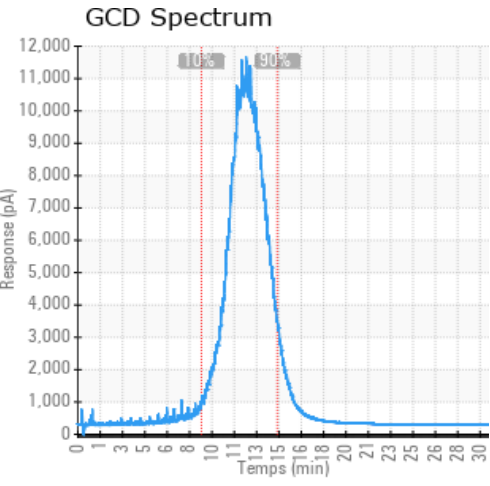
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/04/20	12/21/20	5y		428 / 220	27.3	36.2	0.56	0.138	728 / 387	822 / 439	917 / 492	2.02
12/04/20	12/21/20	5y	Entree Tank #1	424 / 218	36.3	36.6	0.58	0.160	728 / 387	823 / 439	918 / 492	1.93
02/17/20	02/19/20	4y	RESERVOIR	414 / 212	63.2	37.6	0.751	0.435	723 / 384	838 / 448	938 / 504	2.26
12/13/19	12/27/19	4y	RETURN	460 / 238	94.9	36.8	0.769	0.427	678 / 359	788 / 420	895 / 479	5.15
10/31/18	11/05/18	0y		414 / 212	62.1	37.4	0.28	0.716	725 / 385	823 / 440	918 / 492	1.86
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
12/04/20	9	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0
12/04/20	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0
02/17/20	41	0	0	0	0	5	0	0	0	0	1	0	0	0	0	0	1	0	0	0	5	0	0	1
12/13/19	32	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
10/31/18	53	0	0	0	0	3	0	0	0	0	1	2	0	0	0	0	1	0	0	0	6	0	1	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	
12/04/20	OK. Pour usage continue.
02/17/20	L'indice d'acidité (AN) est très élevé, les solides (Pentane Insolubles) est très élevé. Les fractions lourdes (GCD 90%) est élevé. Nous avons dégradation thermique du fluide.
12/13/19	On note: Une augmentation de l'Indice d'acidité (AN) 0.769, une augmentation (GCD) % <335 C, une diminution des Fraction Légère (GCD@10%) 358.7, Présence de Solides (Pentane Insolubles) 0.427, une augmentation de fer. On vous suggère de reprendre une nouvelle échantillon (à un endroit autres) afin de valider les résultats.
10/31/18	On détecte une légère dégradation thermique. Il y a une légère augmentation des fractions lourdes (GCD @90%), une augmentation des fractions à 335°C, une diminution du Point éclair, et une augmentation des solubles. Une augmentation des fractions lourdes (GCD @90%), augmente la viscosité, favorise les dépôts de carbone.

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.