

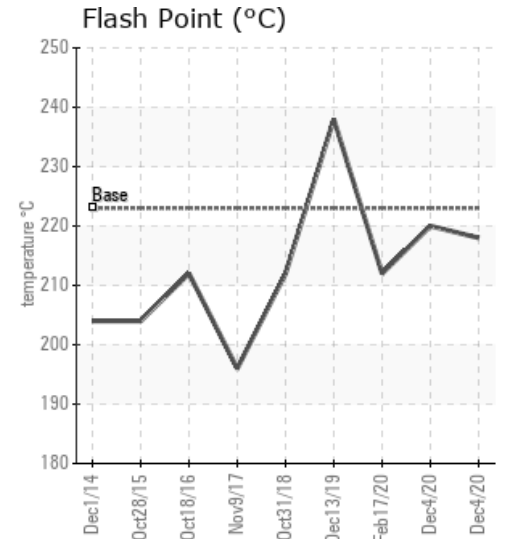
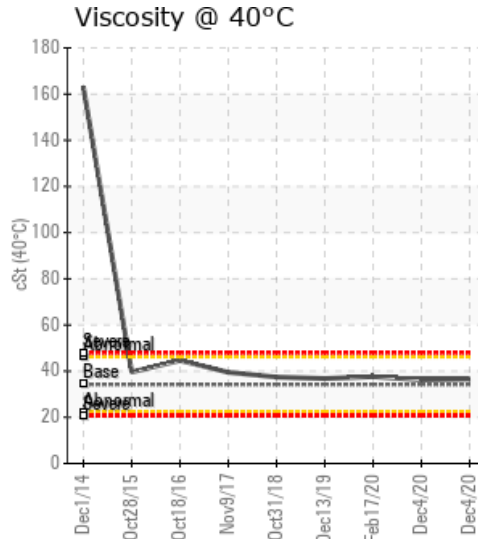
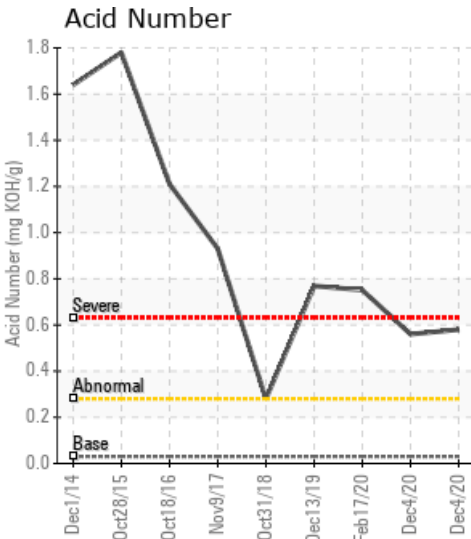
ALI EXCAVATION

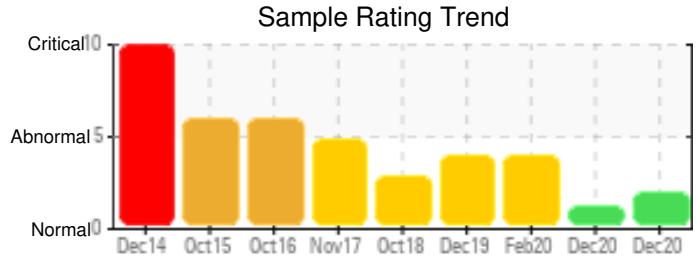
Customer: PTRHTF30079	System Information	Sample Information
ALI EXCAVATION INC. 760 BD DES ERABLES VALLEYFIELD, QC J6T 6G4 Canada Attn: Normand Loiselle Tel: (450)288-3514 E-Mail:	System Volume: 4500 ltr Bulk Operating Temp: 430F / 221C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: GENCOR	Lab No: 02394134 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 continuee.

Comments:

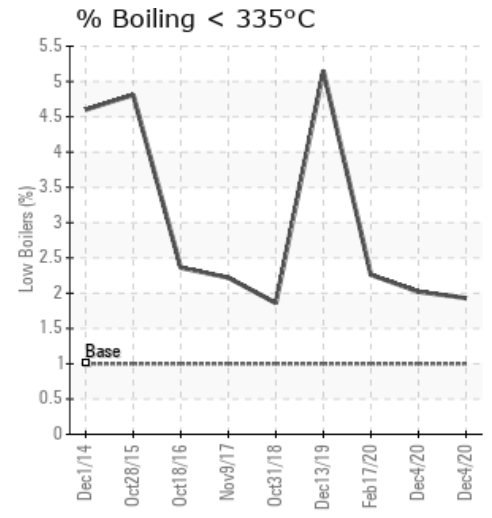
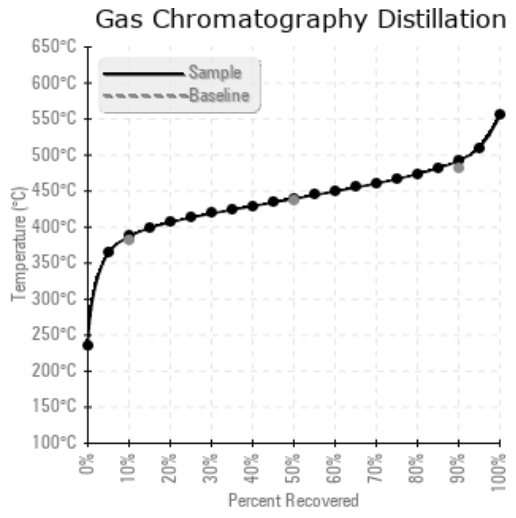
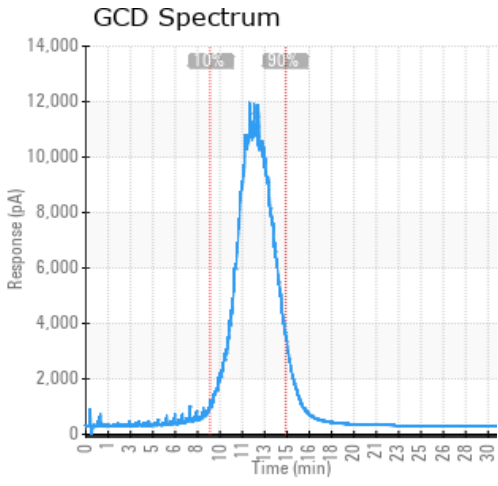
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/04/20	12/21/20	5y	Entree Tank #1	424 / 218	36.3	36.6	0.58	0.160	728 / 387	823 / 439	918 / 492	1.93
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
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	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0
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
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.

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