

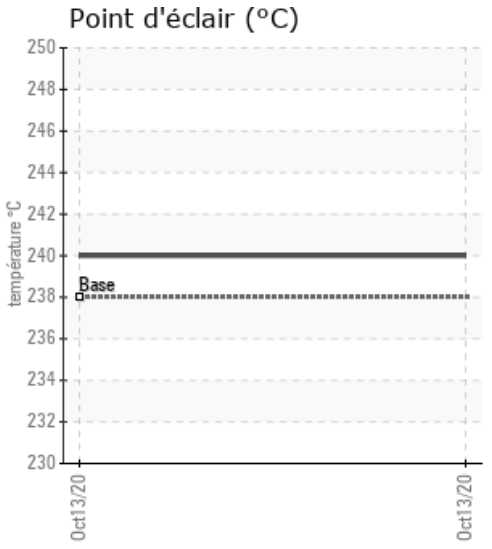
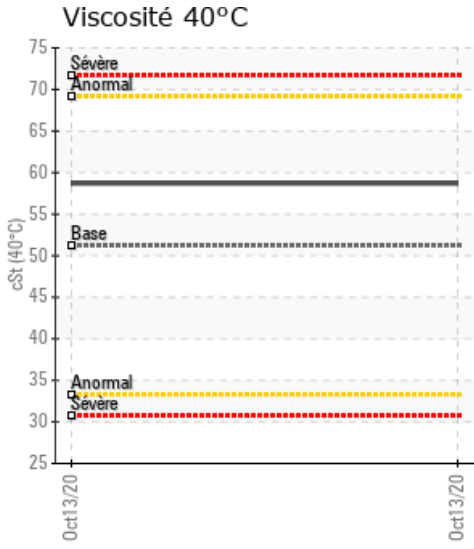
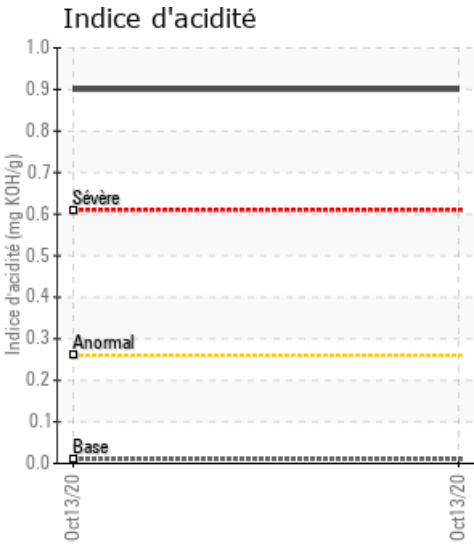
HOT OIL (VALS DES MONTS)

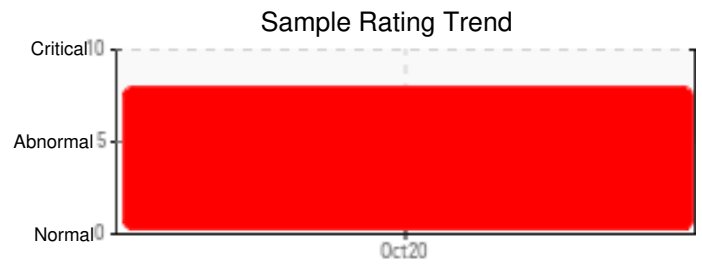
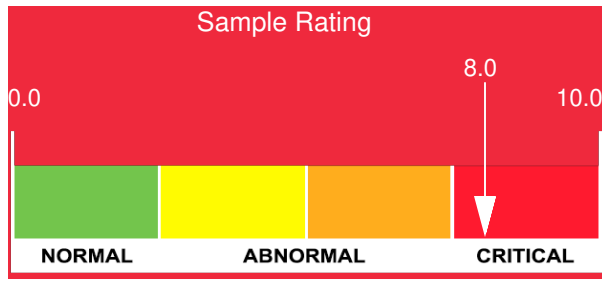
Customer: PTRHTF30158	System Information	Sample Information
CONSTRUCTION DJL INC 20 RUE EMILE BOND GATINEAU, QC J8Y 3M7 Canada Attn: Michel Bedard Tel: (819)918-3481 E-Mail: michel.bedard@djl.ca	System Volume: 1248 ltr Bulk Operating Temp: 356F / 180C Heating Source: Blanket: Fluid: TOTAL HTO 21 Make: RIELLO BURNERS	Lab No: 02382370 Analyst: Pierre Castagne Sample Date: 10/13/20 Received Date: 10/20/20 Completed: 10/23/20 Pierre Castagne pierre.castagne@petrocanadalsp.com

Recommendation: La teneur en acide 0.90 (AN) ainsi que les solides 2.60(Pentane Insolubles) sont très élevés, indiquant l'oxydation du fluide. Les GCD @ 10% sont bas indiquant la présence de fraction légère, les GCD @90% sont élevés indiquant la présence de dépôt de carbone. Ventilé le système pour éliminer les fractions légères. Il y a un début de dégradation thermique du fluide, ré-échantillonné dans 6 mois.

Comments:

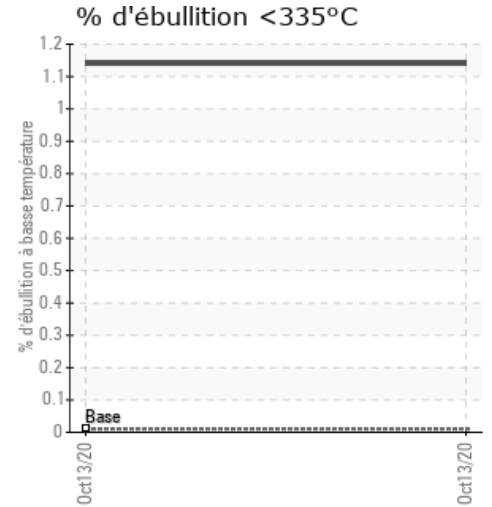
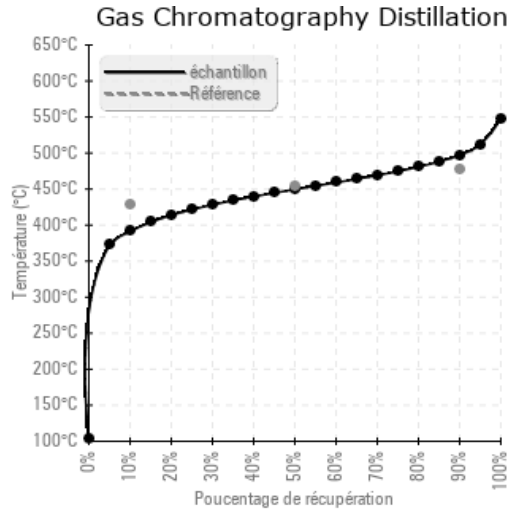
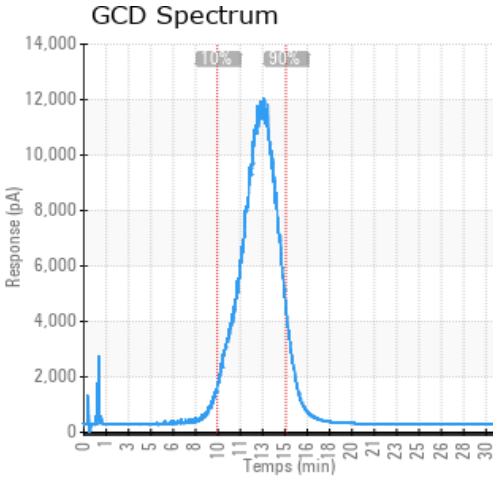
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/13/20	10/20/20	12m	VALS DES MONTS	464 / 240	92.8	58.7	0.90	2.60	736 / 391	841 / 450	927 / 497	1.14
Baseline Data				460 / 238		51.2	0.01		804 / 429	849 / 454	891 / 477	0.01





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	
10/13/20	48	0	0	0	0	3	0	0	0	0	0	8	0	0	0	0	0	0	0	0	1	25	0	3	3
Baseline Data			0	0						0			0	0					0					2	

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



Historical Comments

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