

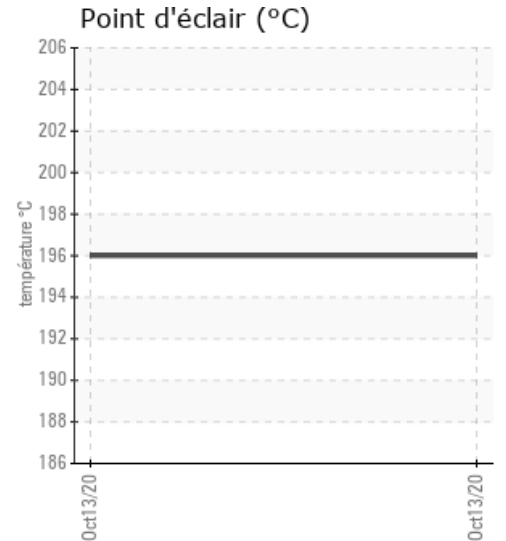
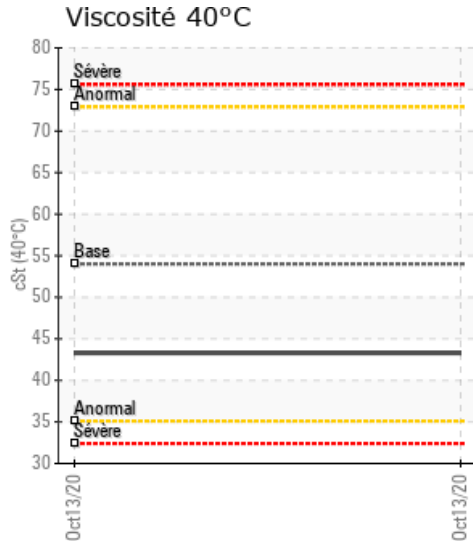
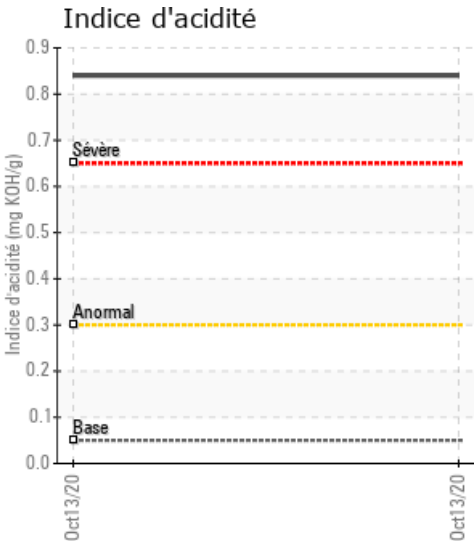
HOT OIL (USINE HULL)

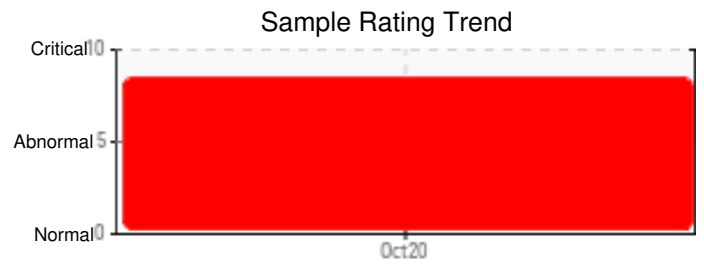
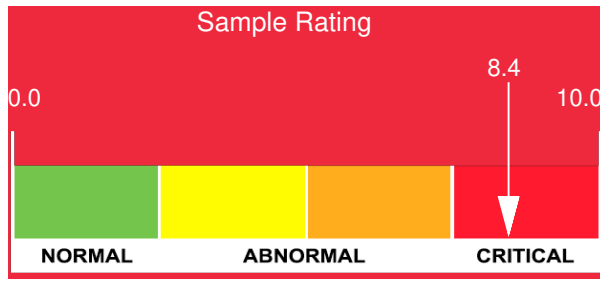
Customer: PTRHTF30158	System Information	Sample Information
CONSTRUCTION DJL INC 20 RUE EMILE BOND GATINEAU, QC J8Y 3M7 Canada Attn: Michel Bedard Tel: (819)918-3481 E-Mail: michel.bedard@djl.ca	System Volume: 1040 ltr Bulk Operating Temp: 365F / 185C Heating Source: Blanket: Fluid: SHELL HEAT TRANSFER OIL S2 X Make: BUCAN	Lab No: 02382371 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 viscosité du fluide Shell Heat Transfer oil S2 X est ISO VG 68, la viscosité de l'échantillon est ISO VG 46. La teneur en acidité 0.84 (AN) ainsi que les solides 0.966 (Pentane Insolubles) sont élevés. Le point éclair 196C est très bas. Les GCD @ 10% sont très bas indiquant la présence de fraction légère. Ventilé le système pour éliminer les fractions légères. Il y a une forte dégradation thermique du fluide, ré-échantillonné dans 6 mois. Si la tendance se maintient, considérer nettoyer, rinçer et remettre une nouvelle charge d'huile neuve.

Comments:

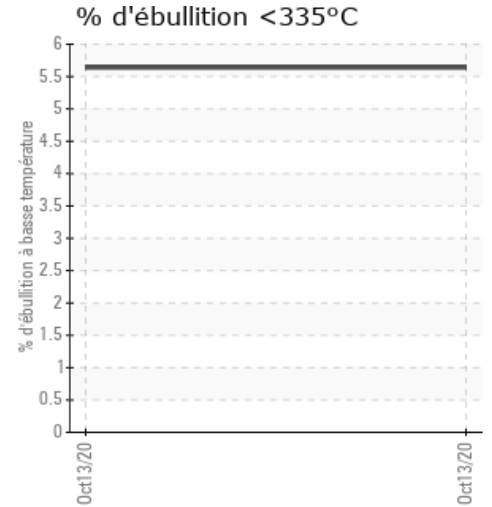
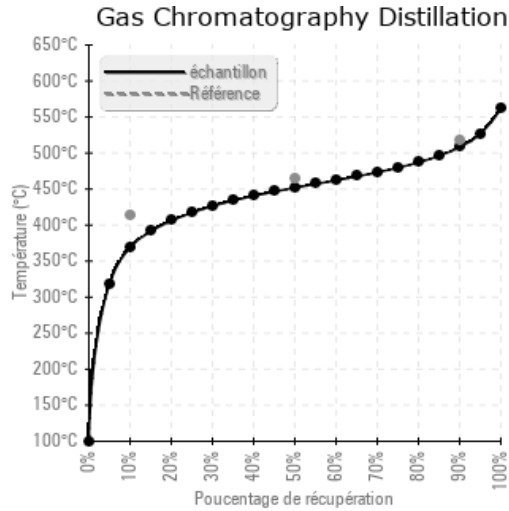
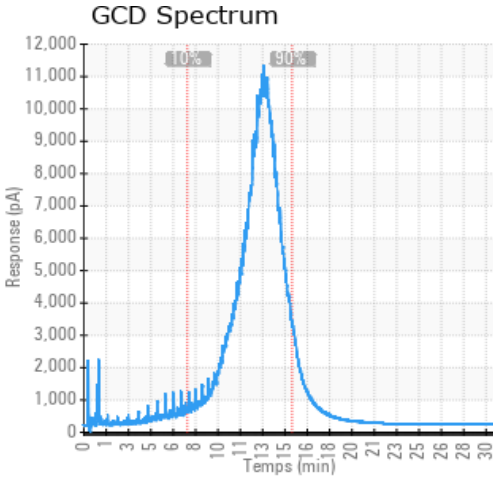
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/13/20	10/20/20	18m		385 / 196	27.1	43.3	0.84	0.966	697 / 369	845 / 452	947 / 508	5.64
Baseline Data				500 / 260		54	0.05		777 / 414	867 / 464	964 / 518	0.00





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	
10/13/20	2	0	0	0	2	2	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	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

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