

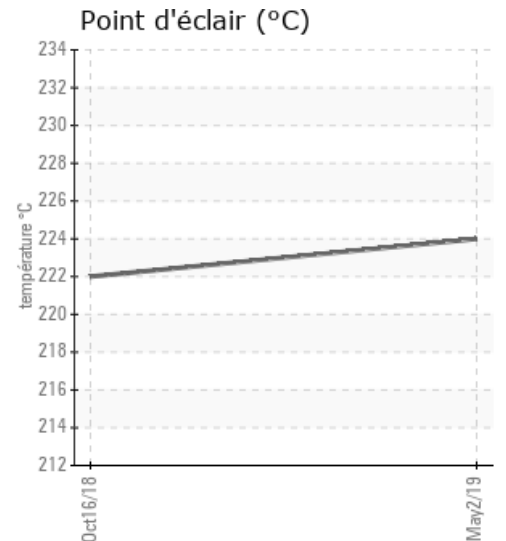
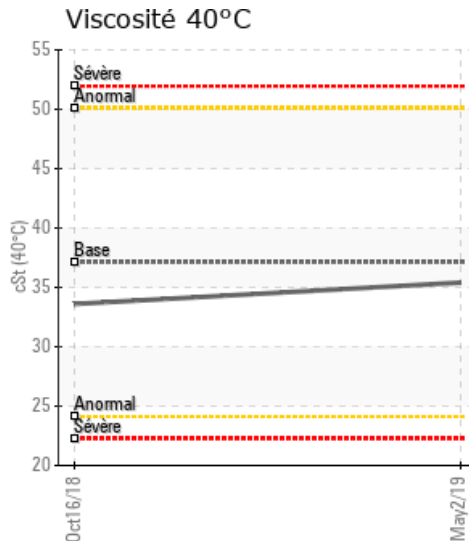
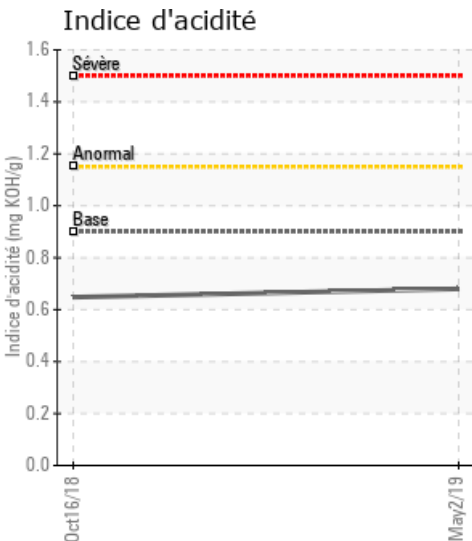
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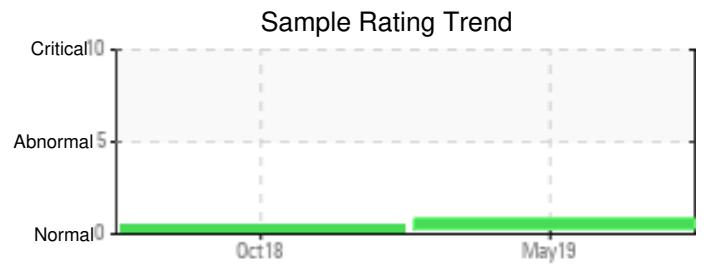
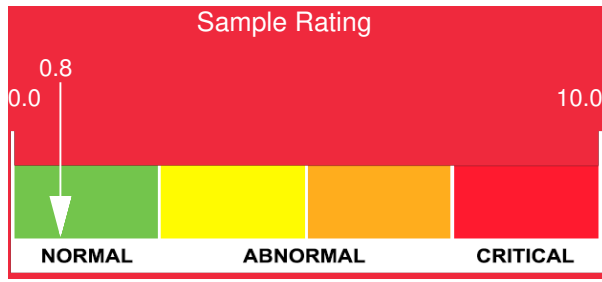
Customer: PTRHTF40128	System Information	Sample Information
Lube & Fluid 30 Rue Andre Sentuc 69200 Venissieux, France Attn: Laurent Coust Tel: (082)589-8904 E-Mail: laurent.coust@lubeandfluid.com	System Volume: 2000 ltr Bulk Operating Temp: 500F / 260C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: SOPAC	Lab No: 02287920 Analyst: Philip Riley Sample Date: 05/02/19 Received Date: 05/29/19 Completed: 05/31/19

Recommendation: Marginally high on GCD 90%. All other parameters within acceptable limits and fluid fit fir further use

Comments:

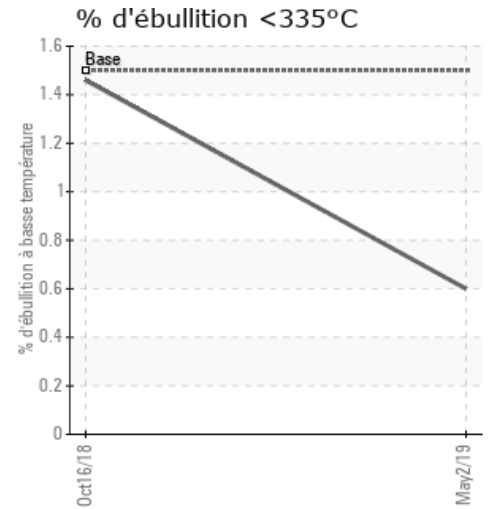
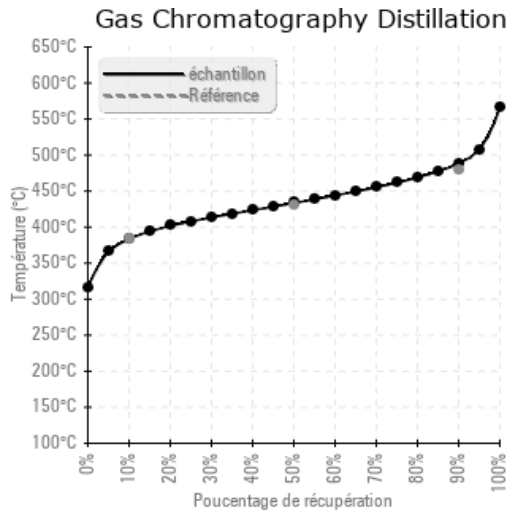
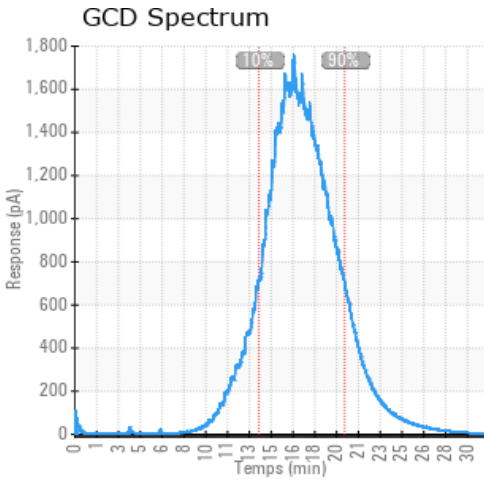
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/02/19	05/29/19	0h		435 / 224	7.1	35.4	0.680	0.067	722 / 383	812 / 433	911 / 488	0.60
10/16/18	12/07/18	0h		432 / 222	345.9	33.6	0.648	0.246	718 / 381	805 / 429	898 / 481	1.46
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
05/02/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0
10/16/18	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	58	0
Baseline Data			0	0						0			0	0					0				230	

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



Historical Comments

10/16/18	All parameters consistent with product expectations. No issues for concern and fit for further use. Please sample at next scheduled interval

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