

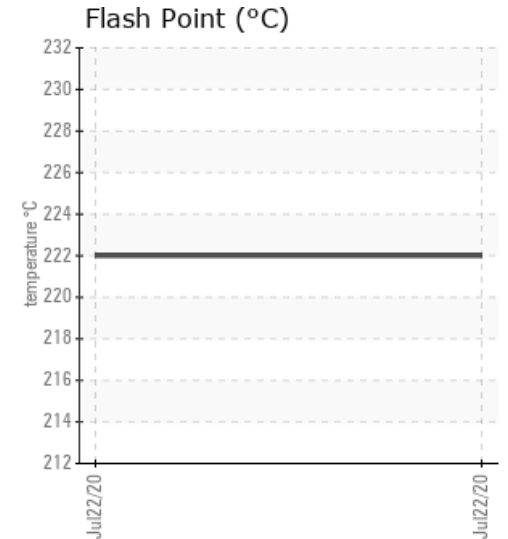
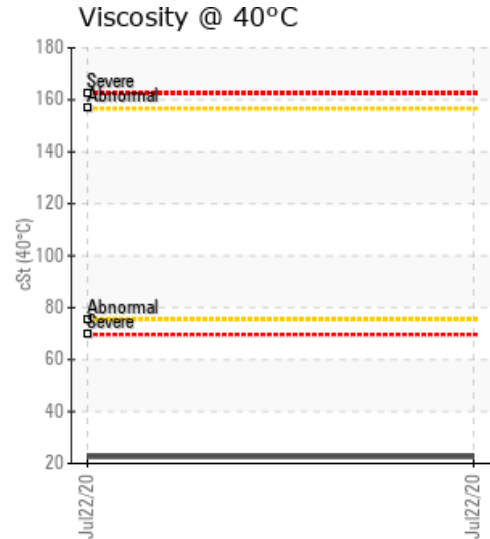
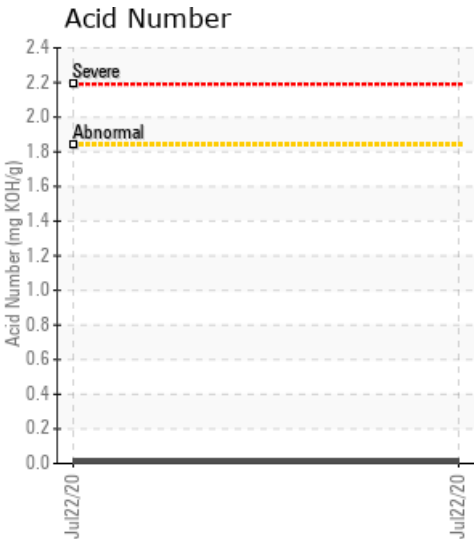
HEATER SYSTEM

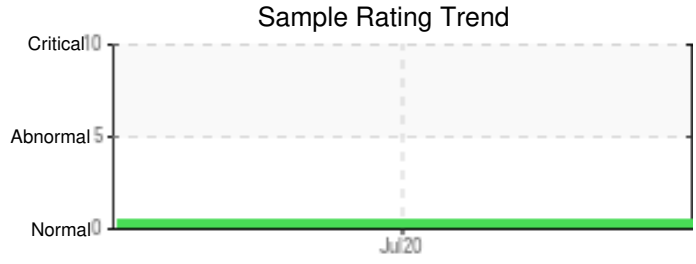
Customer: PTRHTF60022	System Information	Sample Information
TECNILUB LTD ALCALDE PEDRO ALARCON 726 SAN MIGUEL SANTIAGO, 8900110 Chile Attn: Andres Hermosilla Tel: 1(562)273-1300 E-Mail: andres@TECNILUB.CL	System Volume: 20000 ltr Bulk Operating Temp: 90F / 32C Heating Source: Blanket: Fluid: N/A Make: CHINESE HEATER	Lab No: 02369118 Analyst: Peter Harteveld Sample Date: 07/22/20 Received Date: 08/07/20 Completed: 08/11/20 Peter Harteveld peter.harteveld@petrocanadalsp.com

Recommendation: This is baseline data of a fresh unknown Chinese made AB based heat transfer fluid. Since the product brand name is unknown there is no reference data. The viscosity of the fluid is lower than shown in e-mail information. The Flash Point is higher. This can be related to the test method used (Cleveland Open Cup vs. PM Closed Cup). The measured distillation temperature range of the fluid is close to that of the e-mail info. It is recommended to take another sample 24 hours after system start-up when the fluid has reached its stable operating temperature.

Comments:

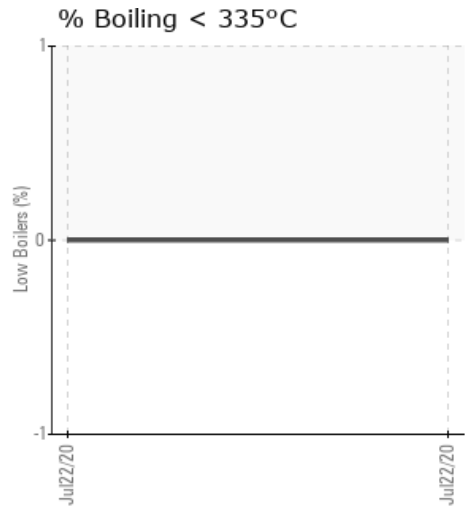
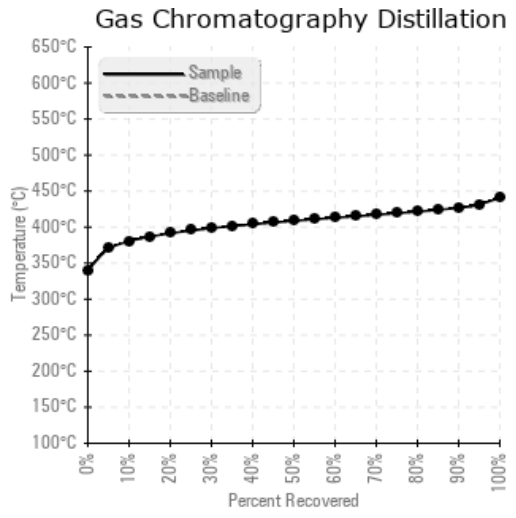
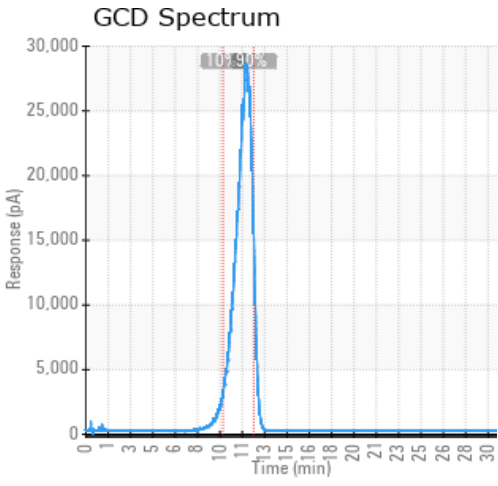
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/22/20	08/07/20	0h	DRUMS	432 / 222	13.3	22.6	0.01	0.039	716 / 380	768 / 409	800 / 427	0.00
Baseline Data				32 / 0								





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
07/22/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data													0						0				0	

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



Historical Comments

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