

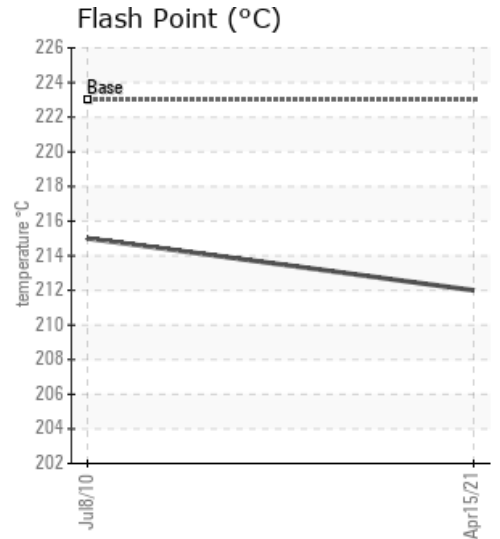
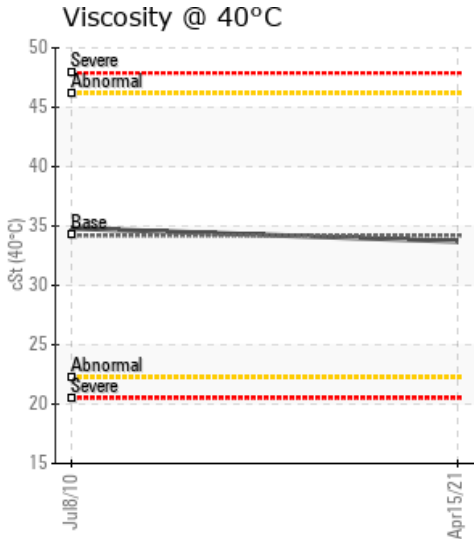
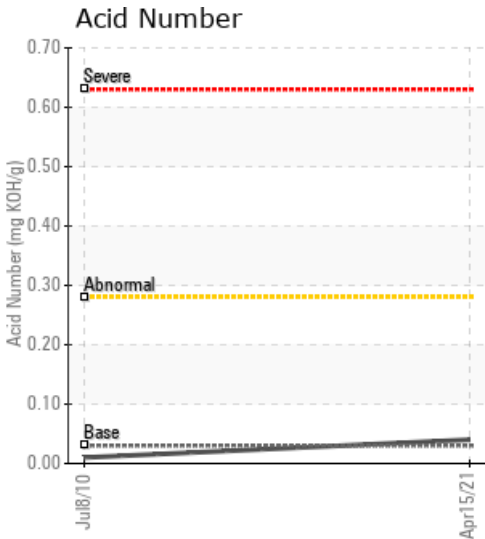
## #2 HEAT TRANSFER SYSTEM

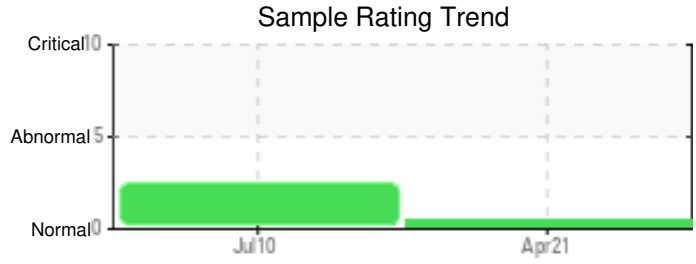
Customer: PTRHTF20015	System Information	Sample Information
CANFOR-HOUSTON 1397 MORICE RIVER ROAD HOUSTON, BC V0J 1Z0 CANADA Attn: Jeremy Stapleton Tel: (250)845-9384 E-Mail: jeremy.stapleton@canfor.com	System Volume: 13000 ltr Bulk Operating Temp: 288F / 142C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: GTS	Lab No: 02417991 Analyst: Ray Rolston Sample Date: 04/15/21 Received Date: 04/29/21 Completed: 05/26/21 Ray Rolston Ray.Rolston@hollyfrontier.com

Recommendation: All lab tests are within specifications, and the heat transfer fluid is in very good condition. Recommend re-sampling in one year to monitor the condition

Comments:

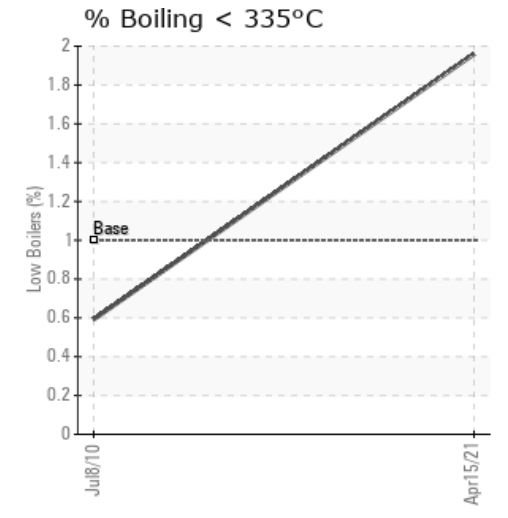
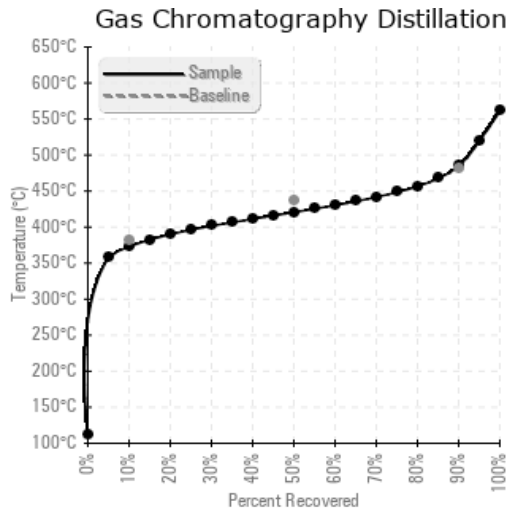
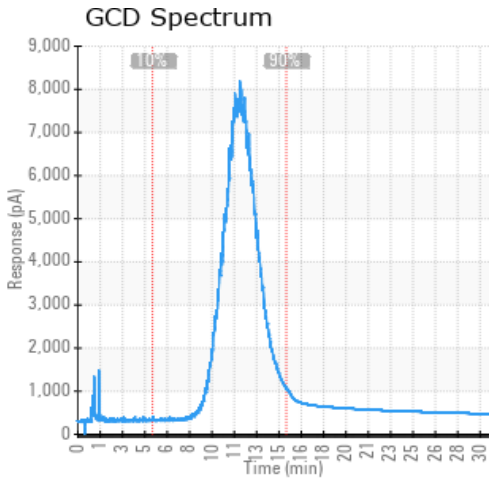
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/15/21	04/29/21	13.0y		414 / 212	25.1	33.7	0.04	0.048	703 / 373	789 / 421	904 / 485	1.96
07/08/10	07/14/10	3.0y	#2 FURNACE HEAT DUMP	419 / 215	141	34.8	0.01	0.006	708 / 376	797 / 425	883 / 473	0.592
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
04/15/21	11	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
07/08/10	1	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			0	0					0				0	

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



Historical Comments	
07/08/10	The Esso product name was not specified but based on the properties observed it appears to be in decent condition

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