

#1 HEAT TRANSFER SYSTEM

Customer: PTRHTF20015
 CANFOR-HOUSTON
 1397 MORICE RIVER ROAD
 HOUSTON, BC V0J 1Z0 CANADA
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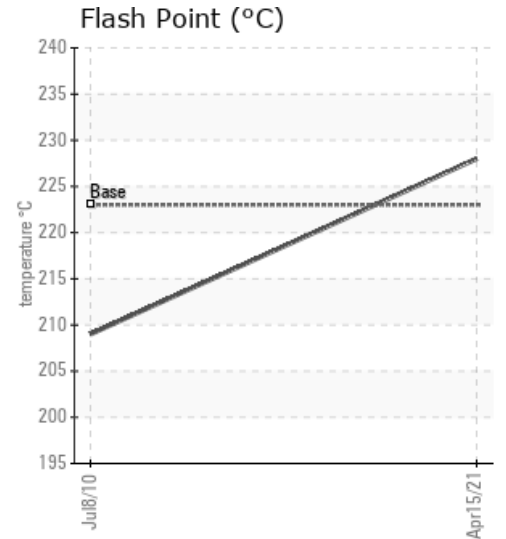
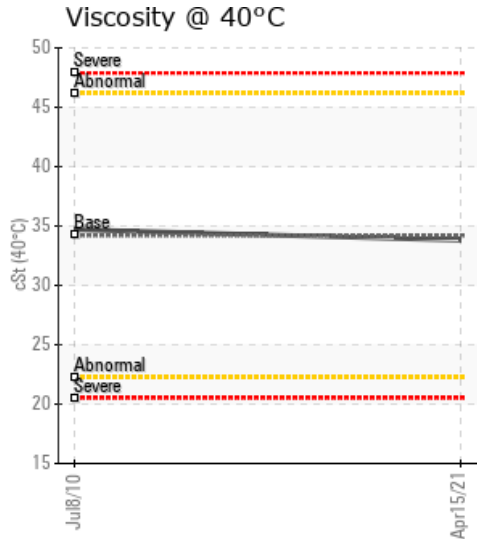
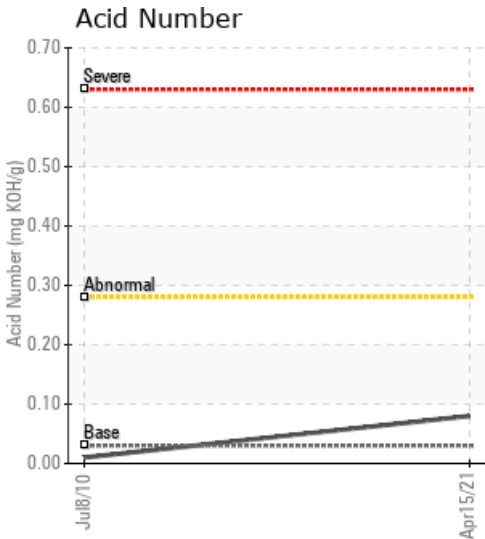
System Information
 System Volume: 13000 ltr
 Bulk Operating Temp: 288F / 142C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: GTS

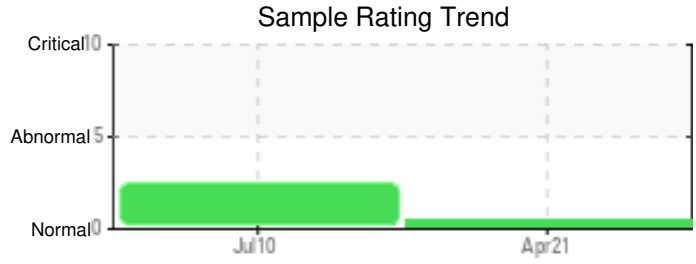
Sample Information
 Lab No: 02417992
 Analyst: Ray Rolston
 Sample Date: 04/15/21
 Received Date: 04/29/21
 Completed: 05/26/21
 Ray Rolston
 Ray.Rolston@hollyfrontier.com

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:

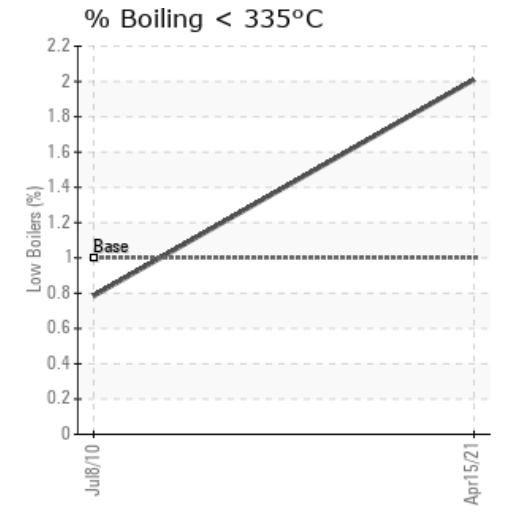
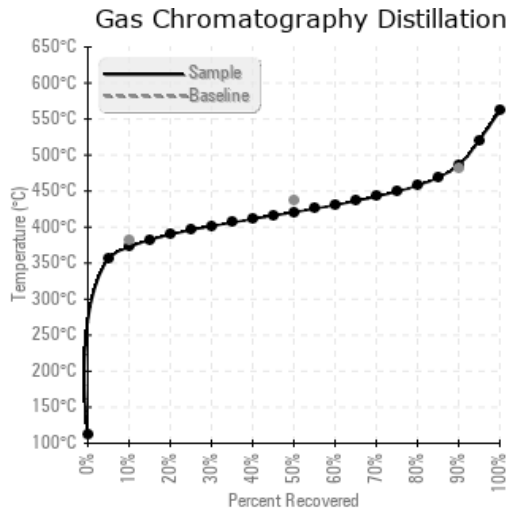
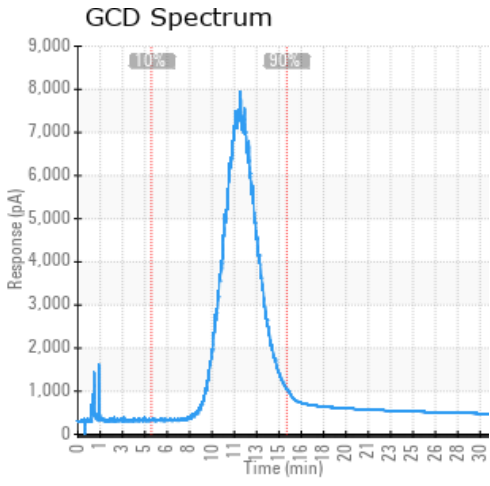
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/15/21	04/29/21	13.0y		442 / 228	27.9	33.8	0.08	0.071	702 / 372	789 / 421	906 / 486	2.01
07/08/10	07/14/10	3.0y	#1 FURNACE HEAT DUMP	408 / 209	40	34.7	0.01	0.007	707 / 375	796 / 424	882 / 472	0.784
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	40	0	0	0	0	0	0	0	0	0	0	17	4	0	0	0	0	0	0	0	3	0	0	1
07/08/10	4	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	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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