

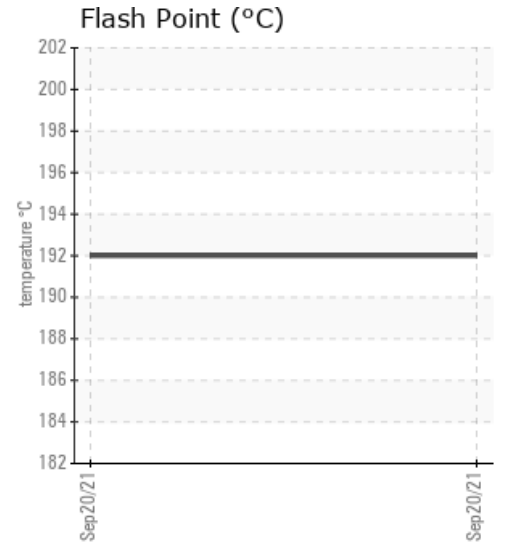
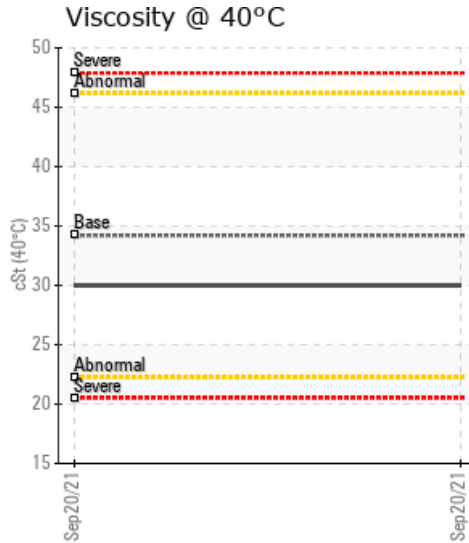
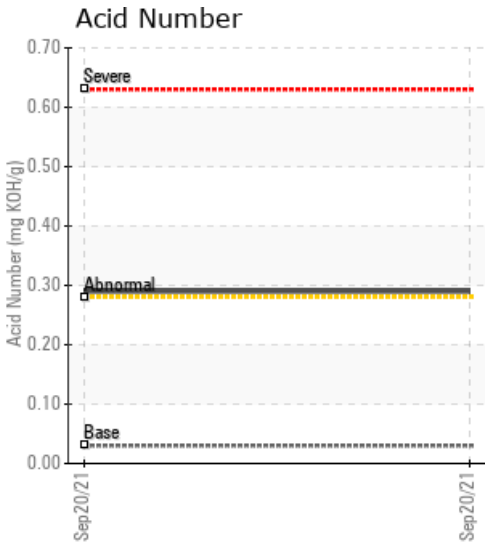
LINE 1

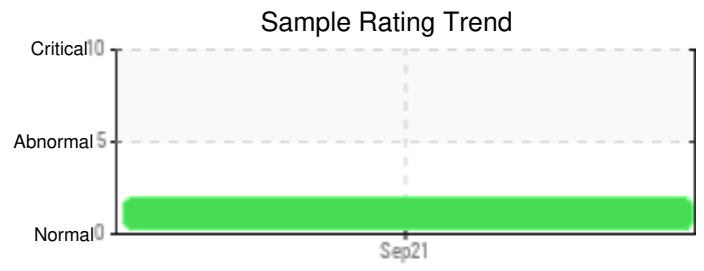
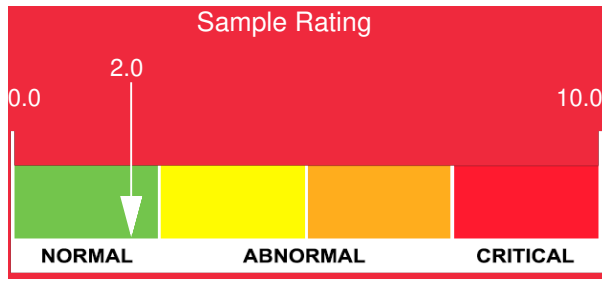
Customer: PTRHTF10249	System Information	Sample Information
BONDED LOGIC 1465 SHATTUCK INDUSTRIAL BLVD LAFAYETTE, GA 30728 USA Attn: Donny Walls Tel: E-Mail: donnyw@bondedlogic.com	System Volume: 200 gal Bulk Operating Temp: 425F / 218C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02446366 Analyst: Jake Finn Sample Date: 09/20/21 Received Date: 09/27/21 Completed: 10/05/21 Jake Finn jake.finn@hollyfrontier.com

Recommendation: High acid number and low flash point indicate the fluid in system has experienced some oxidation. There is no current indication of system component wear or contamination, but if system remains as is, it could result in corroded parts or component wear. Recommended to drain system and refill with fresh Petro-Therm, followed by regular oil analysis every 12 months. If possible, also perform visual inspection of system when fluid is replaced.

Comments: Acid Number (AN) is abnormally high. COC Flash Point is marginally low.

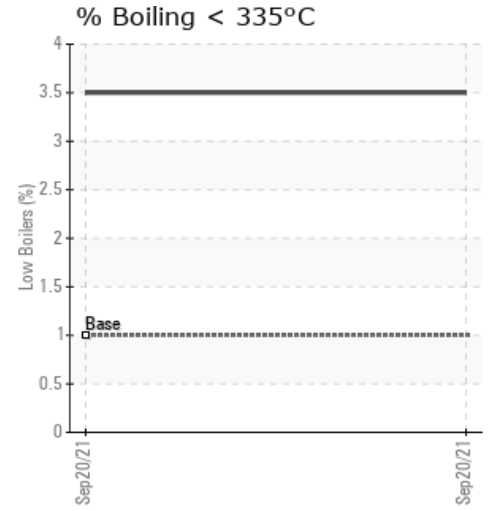
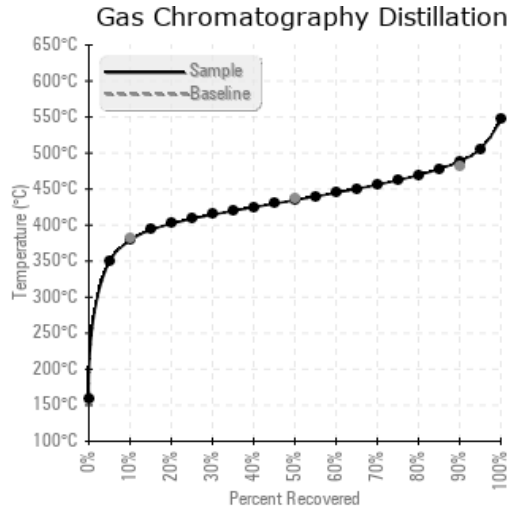
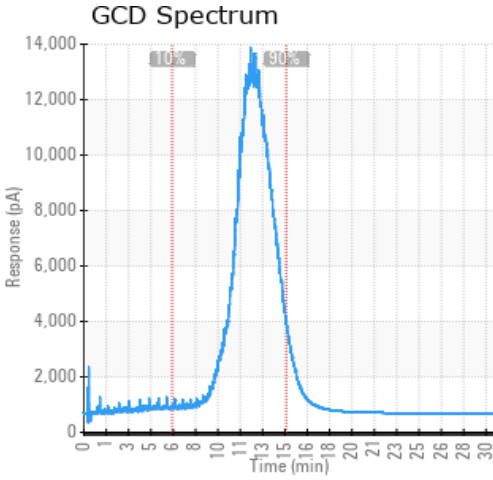
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
09/20/21	09/27/21	2.0y	DRAIN LINE	378 / 192	52.6	30.0	0.29	0.121	714 / 379	814 / 435	911 / 489	3.50
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	
09/20/21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	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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