

# MAXXTEC

**Customer: PTRHTF40063**  
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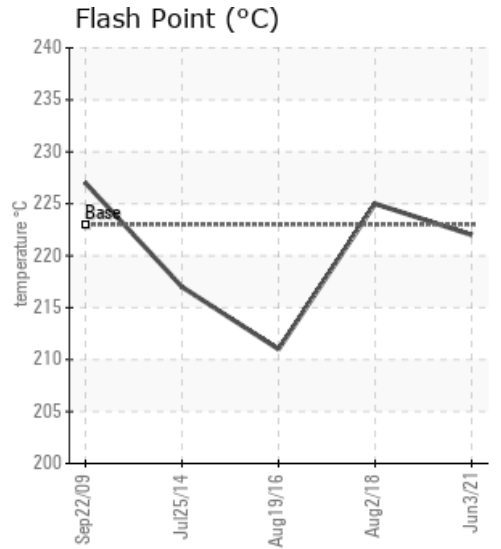
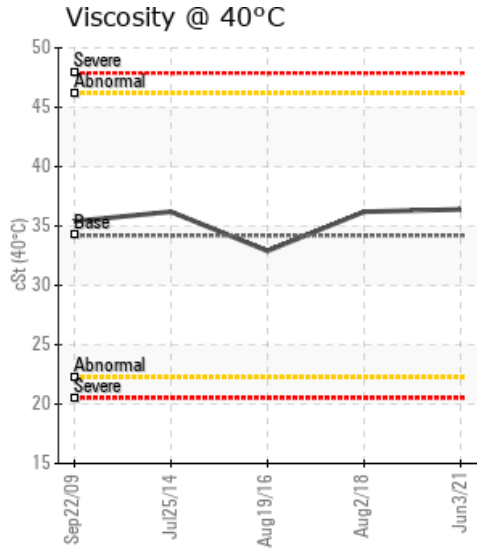
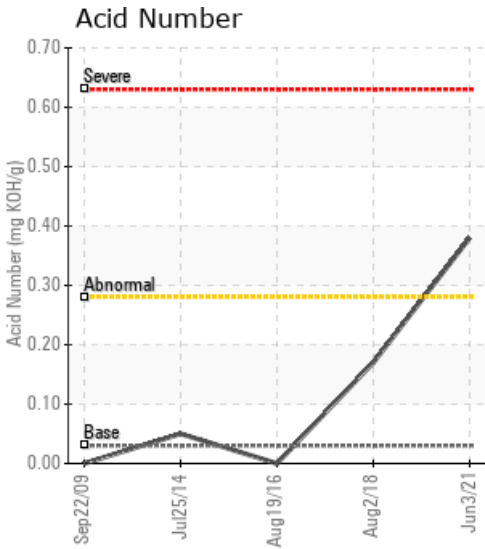
**System Information**  
 System Volume: 6000 ltr  
 Bulk Operating Temp: 275F / 135C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PETRO-THERM  
 Make: MAXXTEC

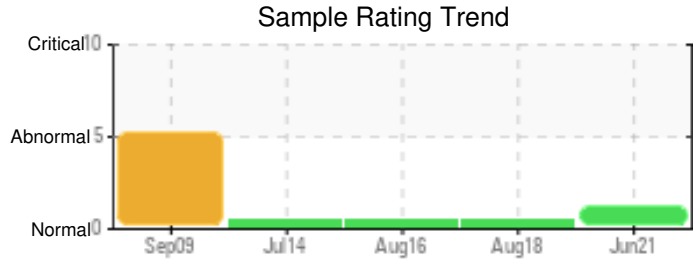
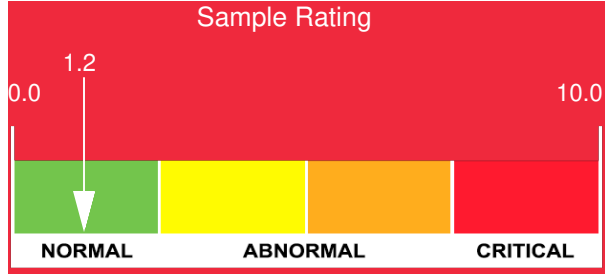
**Sample Information**  
 Lab No: 02427530  
 Analyst: Luis Rodriguez  
 Sample Date: 06/03/21  
 Received Date: 06/16/21  
 Completed: 06/21/21  
 Luis Rodriguez  
 luis.rodriguez@hollyfrontier.com

Recommendation: Oil is fit for further use. All parameters look fine, although the acid number is a bit higher than expected, e.g. due to oxidation of the fluid.

Comments: Acid Number (AN) is a bit higher than expected.

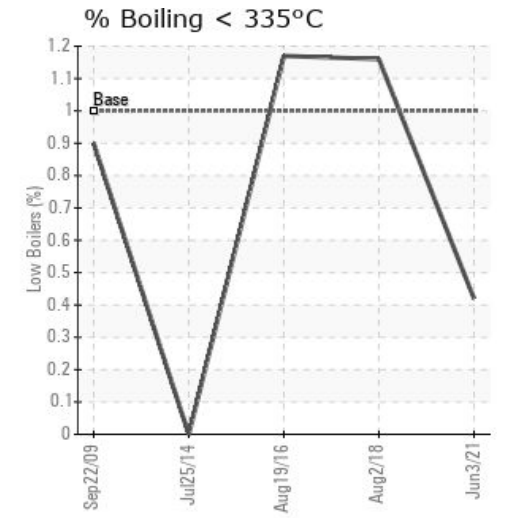
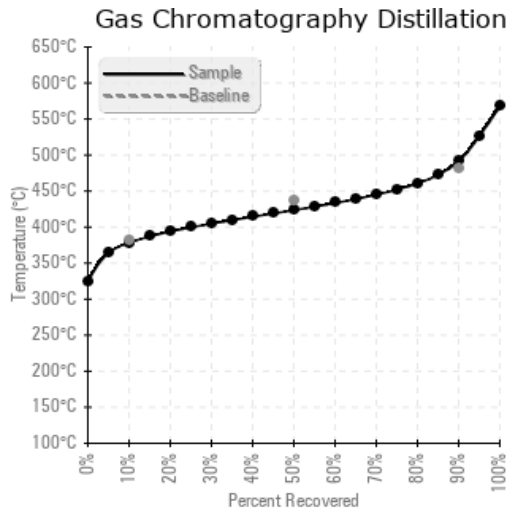
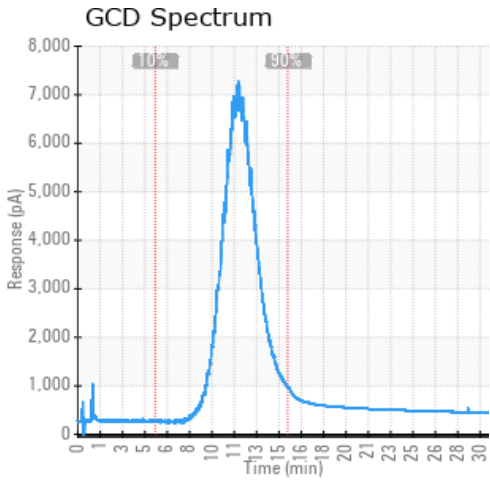
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/03/21	06/16/21	0.0y		432 / 222	15.6	36.4	0.38	0.190	713 / 378	794 / 424	916 / 491	0.42
08/02/18	08/24/18	0.0y		437 / 225	22.2	36.2	0.17	0.109	711 / 377	803 / 429	905 / 485	1.16
08/19/16	08/24/16	10.0y	PTRHTF40063	412 / 211	31.9	32.9	0.000	0.101	712 / 378	805 / 430	906 / 486	1.17
07/25/14	07/31/14	5.0y		423 / 217	0.00	36.2	0.05	0.071	715 / 380	801 / 427	902 / 484	0.00
09/22/09	09/22/09			441 / 227	497	35.4	0	0.03	723 / 384		925 / 496	0.9
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
06/03/21	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
08/02/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1
08/19/16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07/25/14	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	1
09/22/09	6	0	0	0	0	0	0	0	0	0	0	8		0	0		0		0	0	1	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	
08/02/18	All key parameters within normal limits. Fit for further use
08/19/16	Oil is in good condition and fit for further service. Suggest sample at next scheduled maintenance interval.
07/25/14	Oil looks in very good condition. Sample at next scheduled maintenance interval.
09/22/09	

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