

## UPPER TANK FARM

**Customer: PTRHTF10125**  
 TRANSMONTAIGNE  
 700 RIVER ROAD  
 COVINGTON, KY 41017 US  
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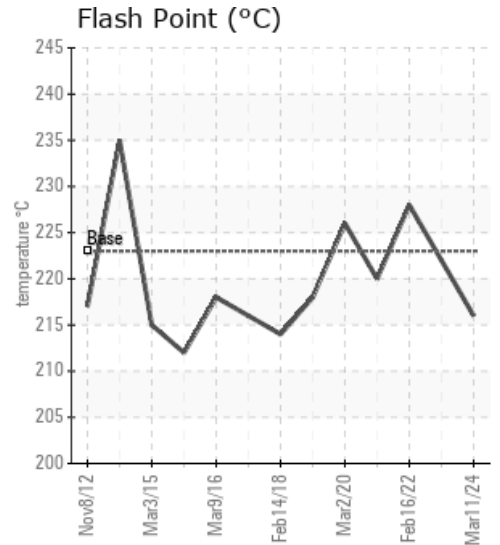
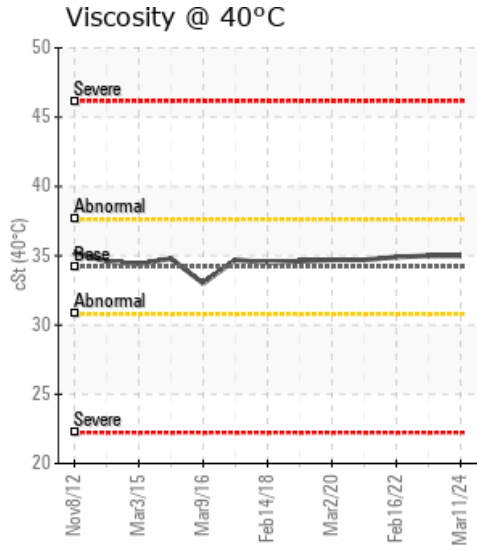
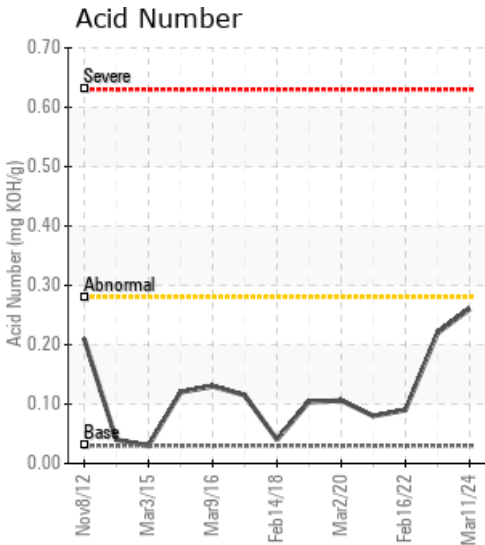
**System Information**  
 System Volume: 2500 gal  
 Bulk Operating Temp: 300F / 149C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PETRO-THERM  
 Make: HEATEC INC

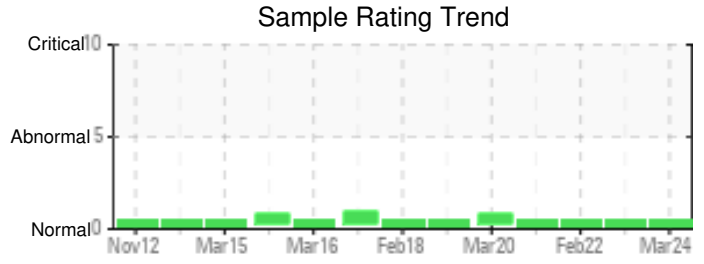
**Sample Information**  
 Lab No: 02626267  
 Analyst: Joe Goecke  
 Sample Date: 03/11/24  
 Received Date: 04/02/24  
 Completed: 04/11/24  
 Joe Goecke  
 Joe.goecke@HFSinclair.com

Recommendation: Sample and all parameters in great condition and good for continued use until next scheduled sampling.

Comments:

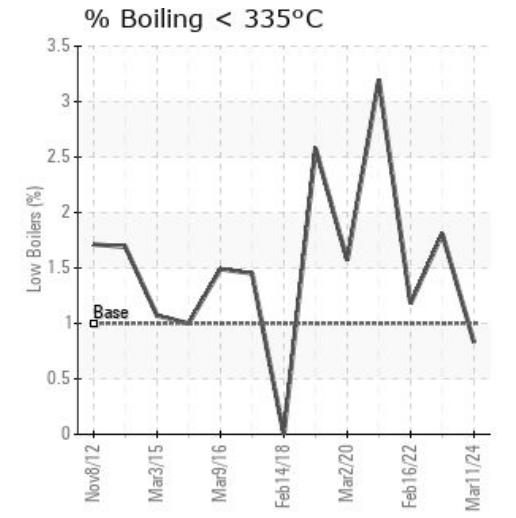
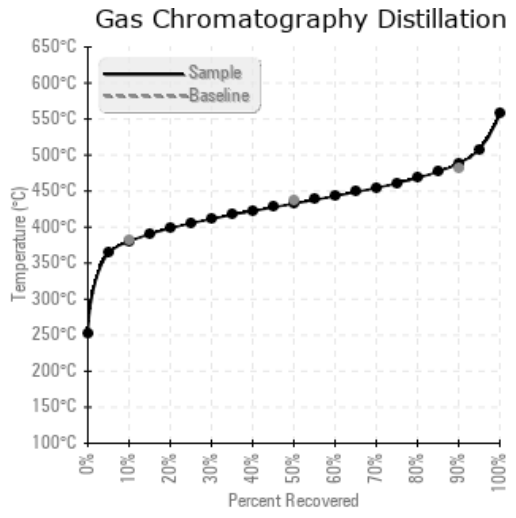
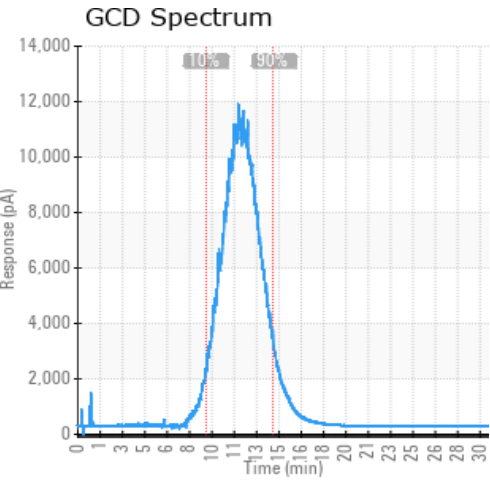
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/11/24	04/02/24	12.0y	BOOSTER PUMP	421 / 216	8	35.0	0.26	0.052	716 / 380	811 / 433	911 / 488	0.83
02/21/23	03/16/23	11.0y	booster pump	432 / 222	0.00	35.0	0.22	0.067	711 / 377	809 / 431	910 / 488	1.81
02/16/22	03/17/22	9.4y		442 / 228	17.5	34.9	0.09	0.040	714 / 379	810 / 432	910 / 488	1.18
03/08/21	03/17/21	8.4y	booster pump	428 / 220	22.3	34.7	0.08	0.094	694 / 368	795 / 424	906 / 486	3.20
03/02/20	03/09/20	7.3y		439 / 226	8.4	34.7	0.106	0.054	705 / 374	818 / 437	929 / 498	1.57
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
03/11/24	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
02/21/23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0
02/16/22	11	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	34	0
03/08/21	16	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	34	0
03/02/20	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	45	0
<b>Baseline Data</b>			0	0						0			0	0					0				0	

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



Historical Comments	
02/21/23	All Parameters are within operating limits and show no degradation. Continue to use product and resample at next scheduled interval
02/16/22	No issues with current sample. Continue use and resample next year.
03/08/21	Sample is in great condition continue to use and sample at next scheduled interval
03/02/20	Sample is in excellent condition. Continue to use and resample at next regularly scheduled interval. (GCD) 90% Distillation Point is abnormally high.

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