

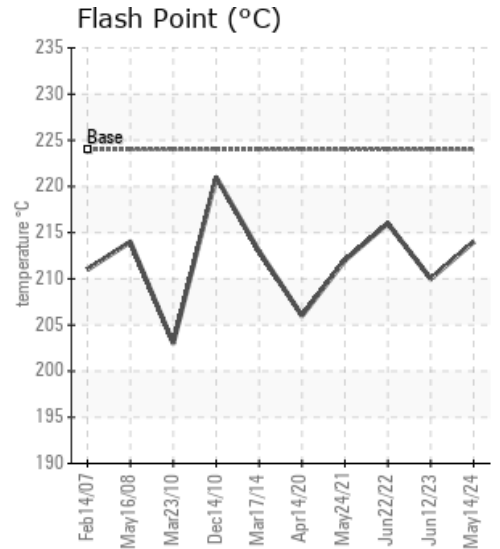
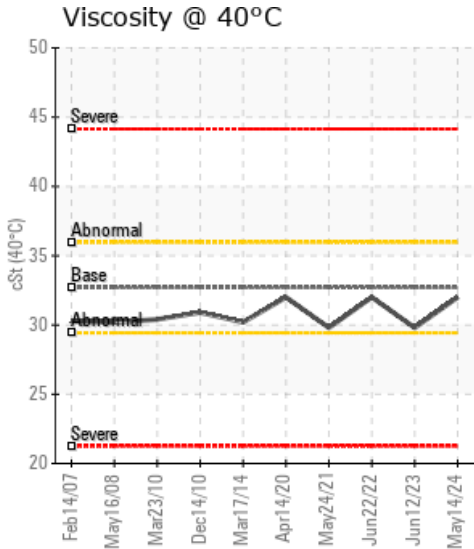
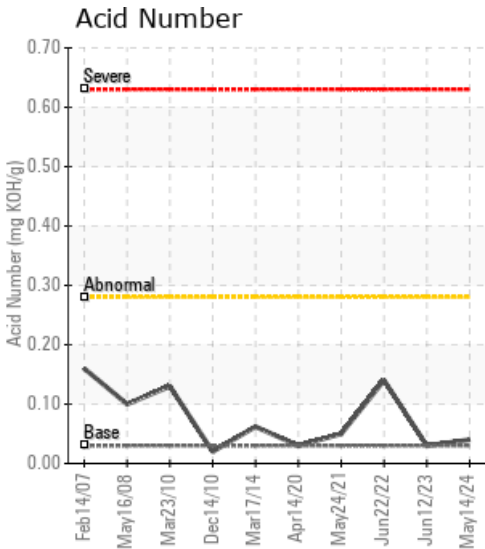
## SYSTEM #1

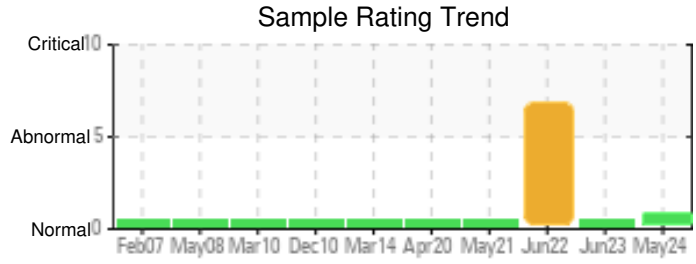
Customer: PTRHTF10073	System Information	Sample Information
SHEPHERD COLOR 4539 DUES DRIVE CINCINNATI, OH 45246 US Attn: Vera Bostwick Tel: (513)874-0714 E-Mail: vbostwick@shepherdcolor.com	System Volume: 550 gal Bulk Operating Temp: 420F / 216C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: FIRST THERMAL	Lab No: 02636811 Analyst: Joe Goecke Sample Date: 05/14/24 Received Date: 05/21/24 Completed: 05/27/24 Joe Goecke Joe.goecke@HFSinclair.com

Recommendation: Oil is in very good condition. Continue use and resample at next scheduled interval

Comments: (GCD) 90% Distillation Point is marginally high.

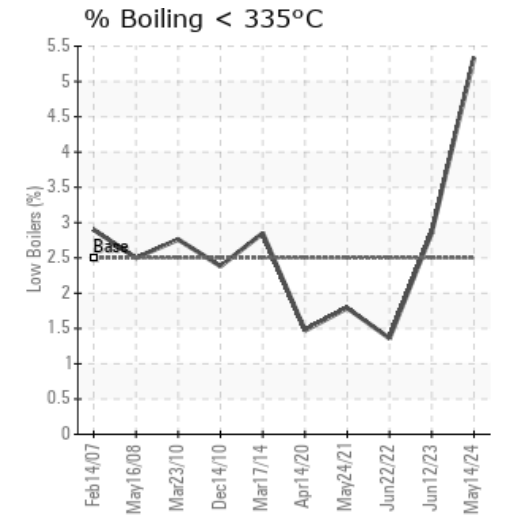
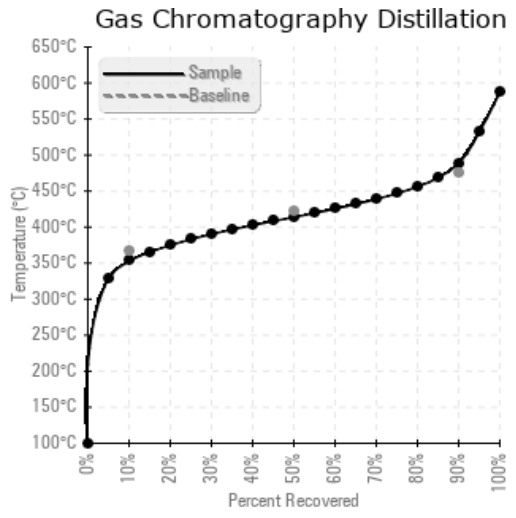
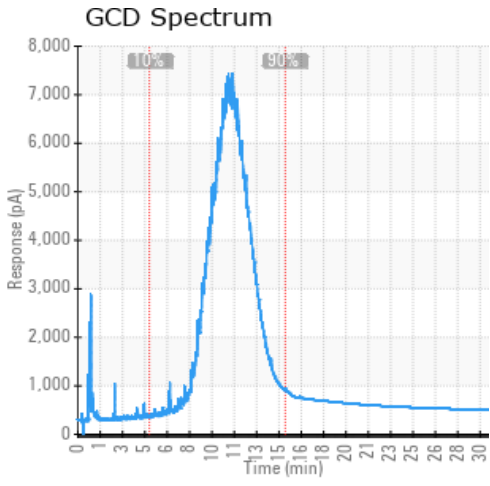
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/14/24	05/21/24	10.0y	PUMP	417 / 214	17	32.0	0.04	0.065	667 / 353	777 / 414	911 / 488	5.34
06/12/23	06/29/23	9.0y		410 / 210	22.3	29.8	0.03	0.043	689 / 365	794 / 423	899 / 482	2.86
06/22/22	06/30/22	8.0y	before inlet	421 / 216	92.0	32.0	0.14	0.381	711 / 377	809 / 432	912 / 489	1.36
05/24/21	06/01/21	7.0y	Reactor outlet	414 / 212	11.5	29.8	0.05	0.091	687 / 364	781 / 416	893 / 478	1.79
04/14/20	04/28/20	5.3y	PUMP AND REACTOR	403 / 206	5.5	32.0	0.03	0.090	699 / 370	796 / 424	896 / 480	1.47
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
05/14/24	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
06/12/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1
06/22/22	40	0	0	3	0	0	0	0	0	0	7	120	1	0	0	0	4	0	0	0	1	0	249	1
05/24/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
04/14/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
<b>Baseline Data</b>			0	0						0		0	0						0				270	

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



Historical Comments	
06/12/23	Fluid is in great condition. Actually had decreases in water and Acid Number showing good stability. Continue to operate and resample next year.
06/22/22	Very high sodium reading. will confirm at next sample interval but all other parameters are good. sodium could possibly be from sweat or other inadvertant contamination. Sodium ppm levels are severely high. (GCD) 90% Distillation Point is marginally high.
05/24/21	Sample is in excellent condition. Continue to use and resample at next scheduled interval.
04/14/20	All fluid measurements in great condition. Continue to use product as normal and resample a next scheduled interval.

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