

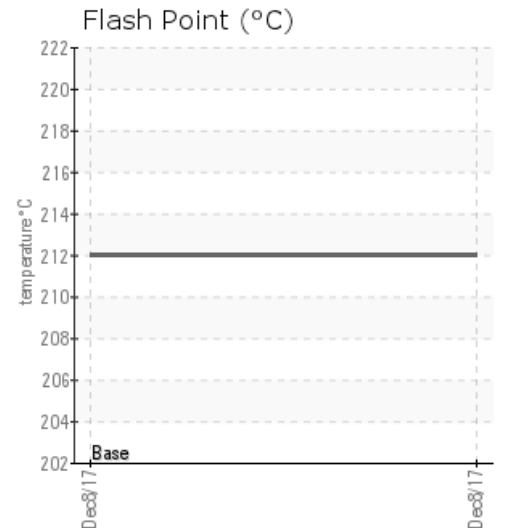
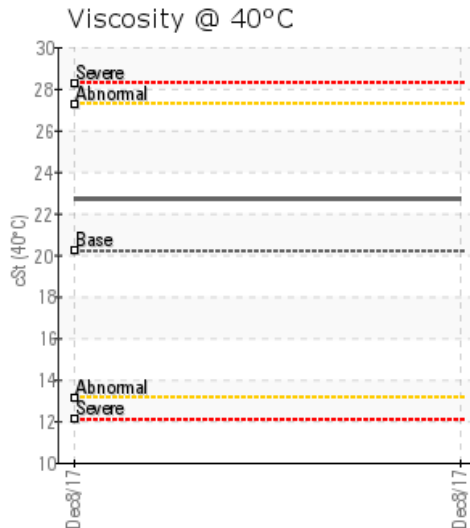
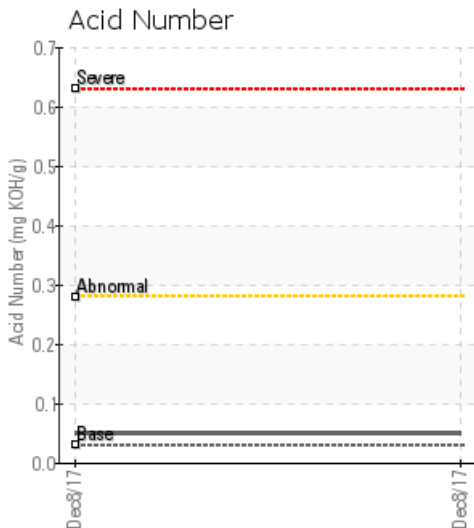
## [TRAVELING PLANT] 601

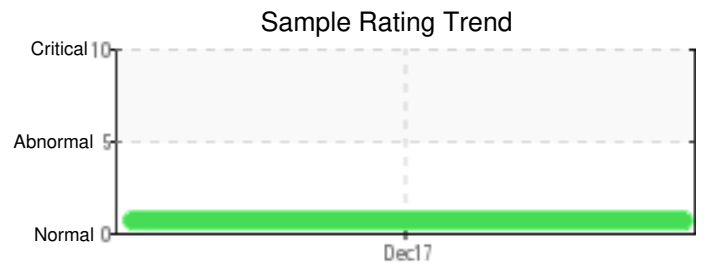
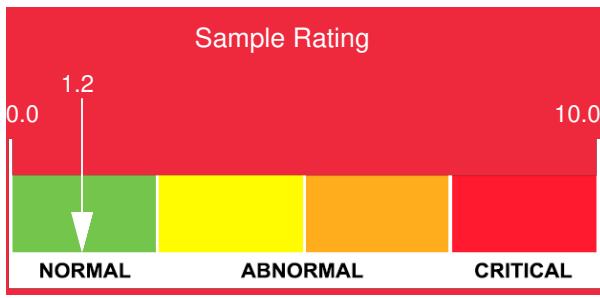
Customer: PTRHTF10192	System Information	Sample Information
<b>HARDRIVES INC</b> 502 S 33RD ST SAINT CLOUD, MN 56301 USA Attn: Chuck Theel Tel: (320)227-1681 E-Mail: ctheel@hardrivesinc.com	System Volume: 300 gal Bulk Operating Temp: 400F / 204C Heating Source: Blanket: Fluid: MOBIL MOBILTHERM 603 Make: HEATEC	Lab No: 02189489 Analyst: Neil Buchanan Sample Date: 12/08/17 Received Date: 12/21/17 Completed: 01/05/18 To discuss this report contact Neil Buchanan at 612-619-6571

Recommendation: Sample looks good with the exception of Pentane Insolubles being high. Recommend high temperature filtration be installed. Resample next interval to monitor.

Comments: Pentane Insolubles levels are abnormally high. Zinc ppm levels are abnormally high.

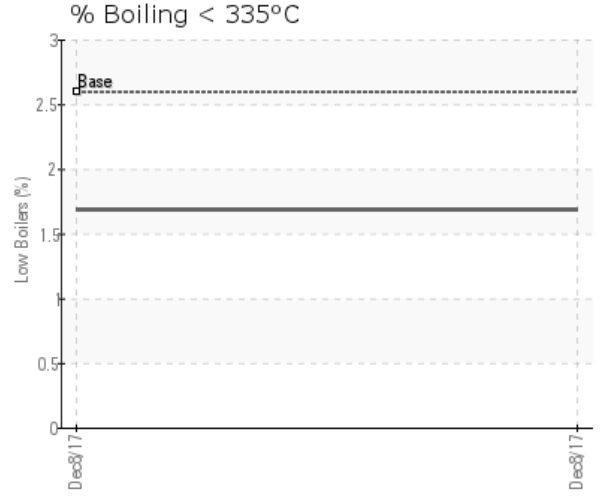
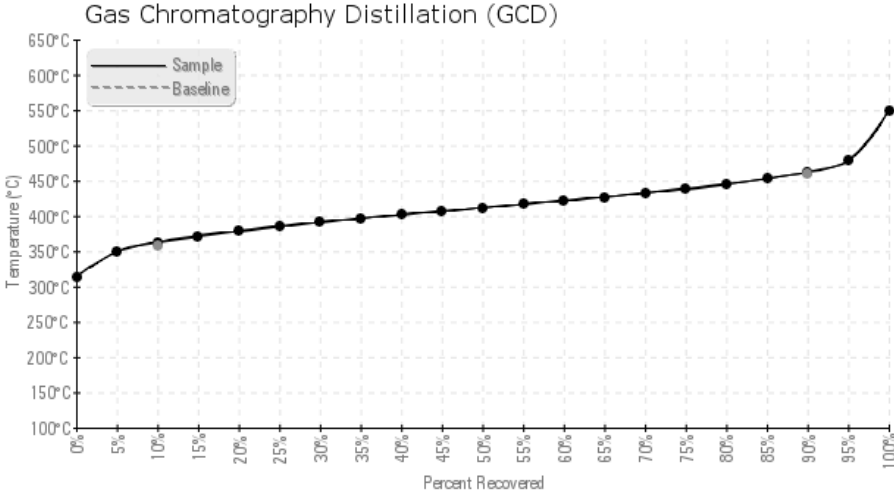
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/08/17	12/21/17	6y		414 / 212	11.9	22.7	0.05	0.550	685 / 363	773 / 412	864 / 462	1.69
Baseline Data				379 / 193		20.2	0.03		676 / 358		858 / 459	2.6





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
12/08/17	57	0	0	0	9	3	1	13	0	0	3	2	0	0	0	0	1	0	0	2	13	1	27	33
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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