

ROSEBURG PEMBROKE

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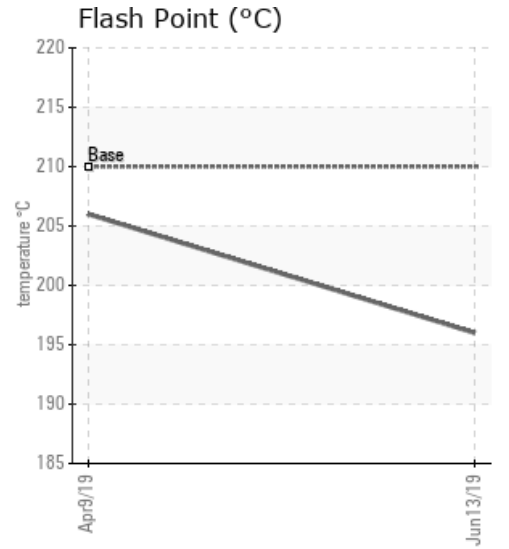
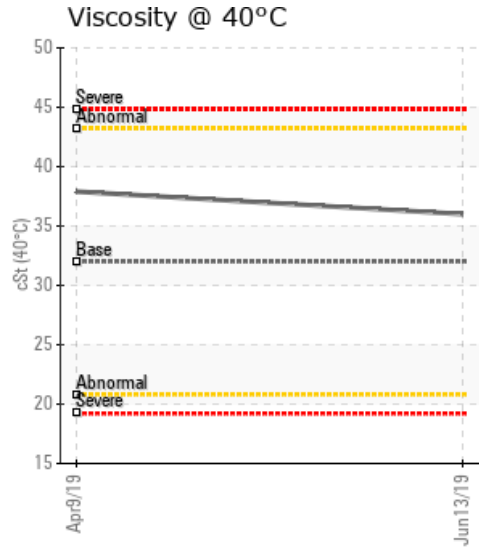
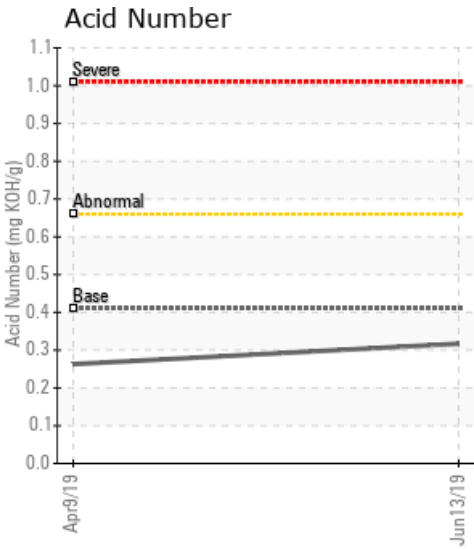
System Information
 System Volume: 100000 gal
 Bulk Operating Temp: 518F / 270C
 Heating Source:
 Blanket:
 Fluid: HEAT TRANSFER FLUID ISO 32
 Make:

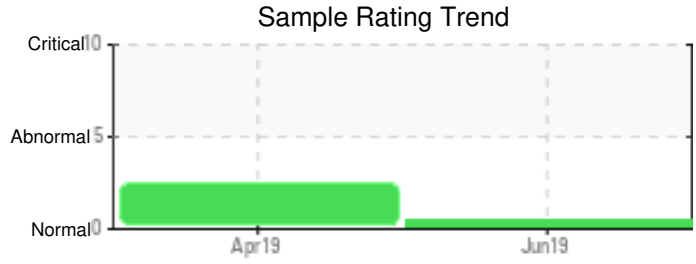
Sample Information
 Lab No: 02291242
 Analyst: Pierre Castagne
 Sample Date: 06/13/19
 Received Date: 06/14/19
 Completed: 06/20/19

Recommendation: The oil is OK, for continuous use

Comments:

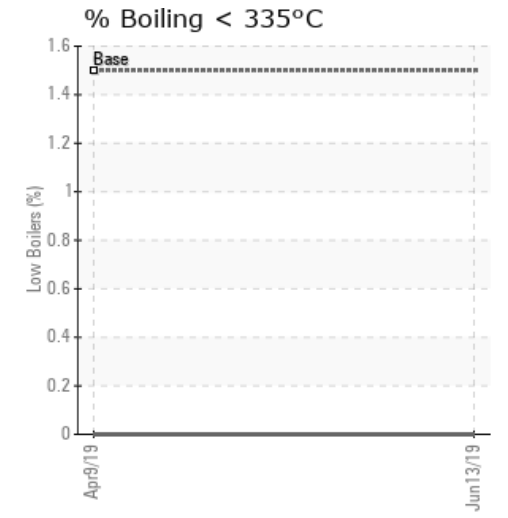
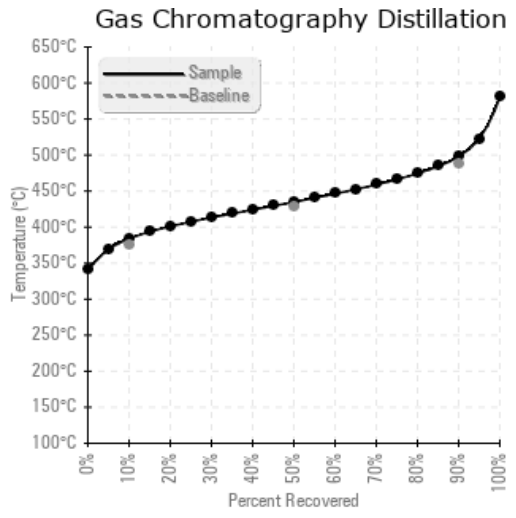
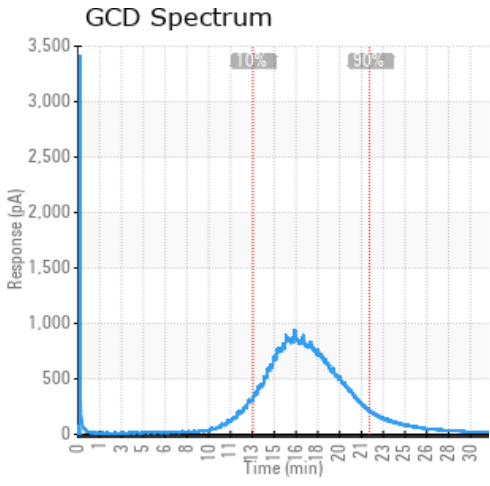
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/13/19	06/14/19	0c	BOILER	385 / 196	138.4	36.0	0.317	0.059	723 / 384	815 / 435	928 / 498	0.00
04/09/19	04/12/19	0c	HH PUMP SUSTION	403 / 206	0.5	37.9	0.263	0.152	731 / 389	821 / 438	932 / 500	0.00
Baseline Data				410 / 210		32	0.41		707 / 375	802 / 428	910 / 488	1.5





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
06/13/19	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04/09/19	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Baseline Data			0	0						0			0	0					5				250	

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



Historical Comments	
04/09/19	The Petro-Therm is good for continuous use, resample at your regular sample interval. GCD @10% and GCD @ 90% are marginally high, Acidity is marginally high. (GCD) 90% Distillation Point is marginally high.

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