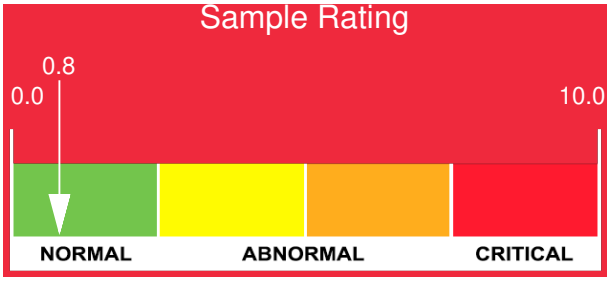
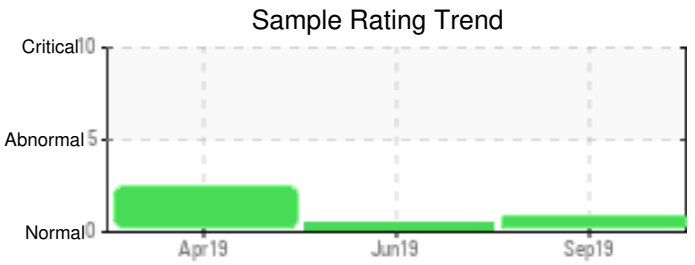




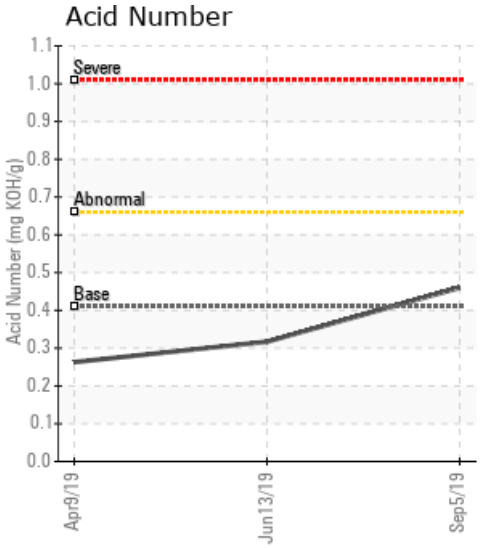
ROSEBURG PEMBROKE

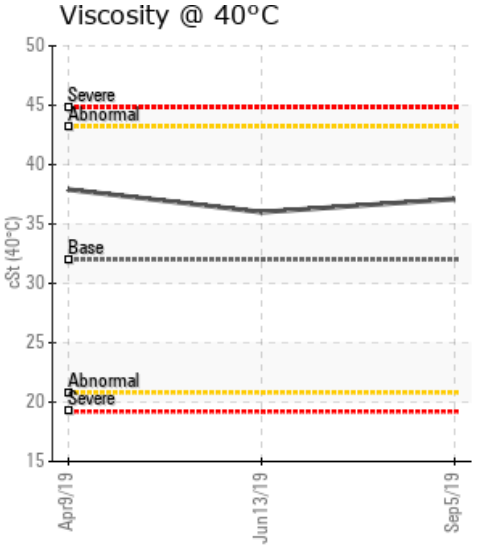
Customer: PTRHTF30101	System Information	Sample Information
Roseburg Pembroke MDF Inc. 777 Fibreboard Drive Pembroke, ON K8A 6W5 Canada Attn: Dan Havis Tel: (613)732-3939 E-Mail: danielh@rfpco.com	System Volume: 100000 gal Bulk Operating Temp: 518F / 270C Heating Source: Blanket: Fluid: HEAT TRANSFER FLUID ISO 32 Make:	Lab No: 02306971 Analyst: Pierre Castagne Sample Date: 09/05/19 Received Date: 09/09/19 Completed: 09/12/19 Pierre Castagne pierre.castagne@petrocanadalsp.com

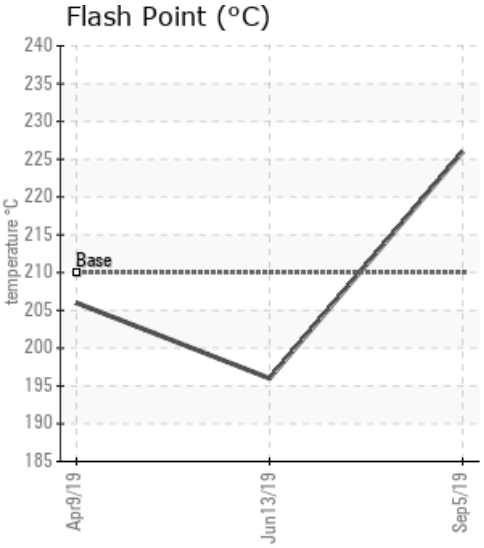
Recommendation: Our GCD 90% are marginally high, we have slight oxydation of the oil.The oil is Ok for continuous use.

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

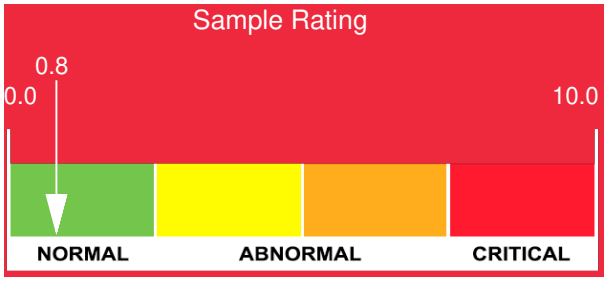
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
09/05/19	09/09/19	0c		439 / 226	17.8	37.1	0.460	0.168	685 / 363	789 / 421	892 / 478	3.74
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

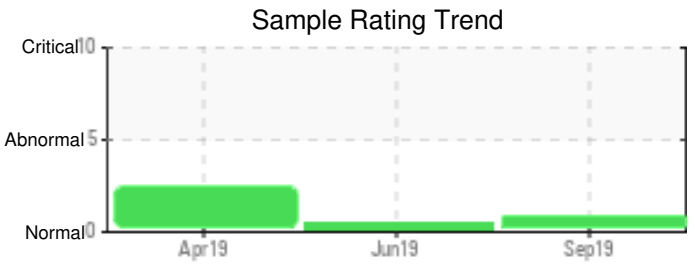






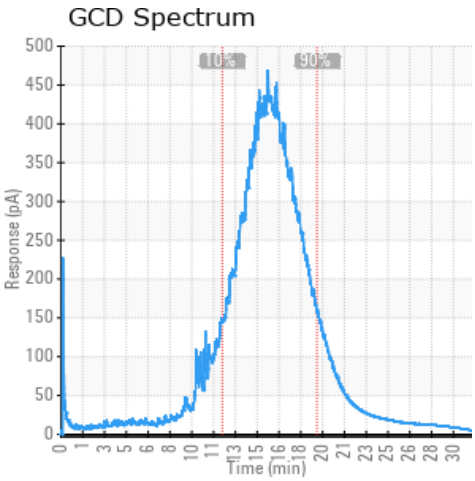
PETRO-CANADA LUBRICANTS

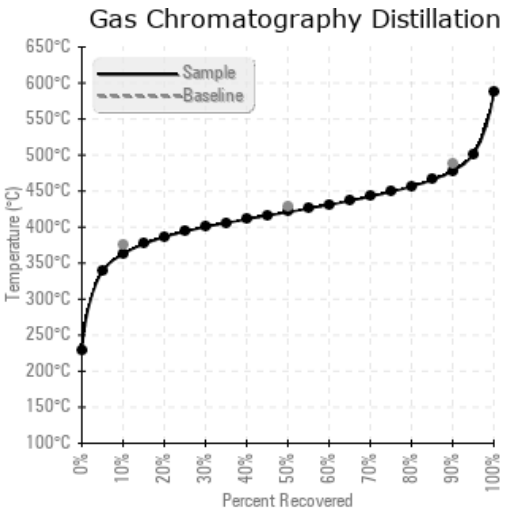


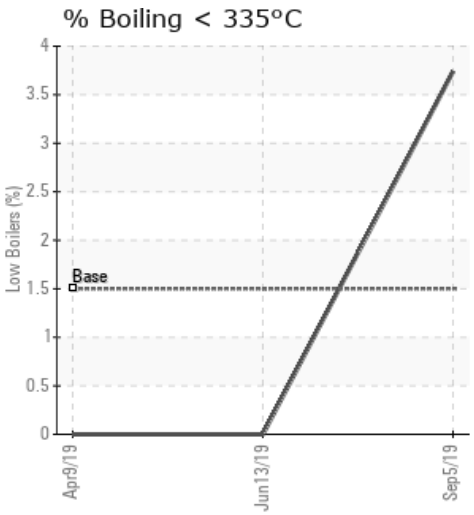


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
09/05/19	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	4
06/13/19	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 anaysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]







Historical Comments

06/13/19	The oil is OK, for continuous use
04/09/19	The Petro-Therm is good for continuous use, resample at your regular sample inerval.GCD @10% and GCD @ 90% are marginally high, Acidity is marginally high. (GCD) 90% Distillation Point is marginally high.