

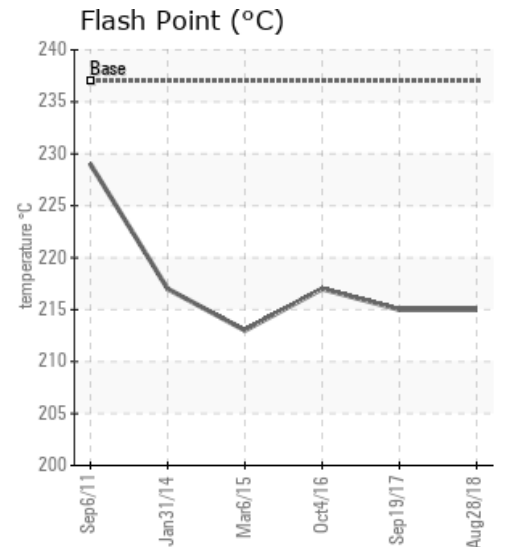
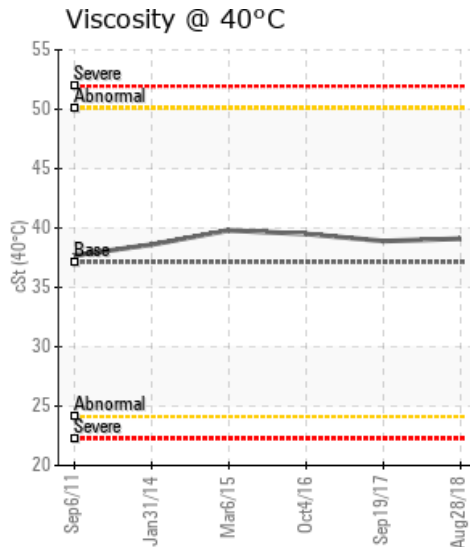
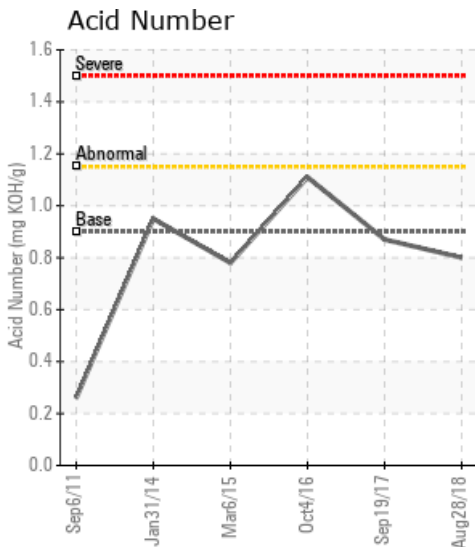
HEAT TRANSFER SYSTEM

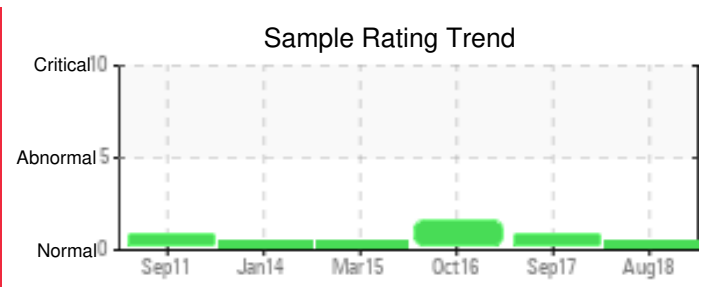
Customer: PTRHTF40090	System Information	Sample Information
QUICKLY BEST SELLERS BV AKKEKSE WEG 136 MEDEL, 5321M6 NETHERLANDS Attn: Maintenance Manager Tel: NA E-Mail:	System Volume: 3500 ltr Bulk Operating Temp: 270F / 132C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: MAXXTEC	Lab No: 02237351 Analyst: Philip Riley Sample Date: 08/28/18 Received Date: 09/04/18 Completed: 09/10/18 To discuss this report contact Philip Riley at (440)124-4378171

Recommendation: All parameters within allowable limits. Some light ends present but COC unaffected. Based on sample results fluid fit for further use

Comments:

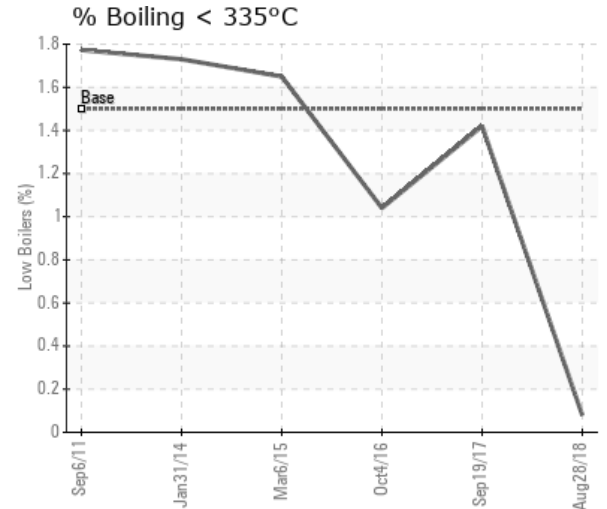
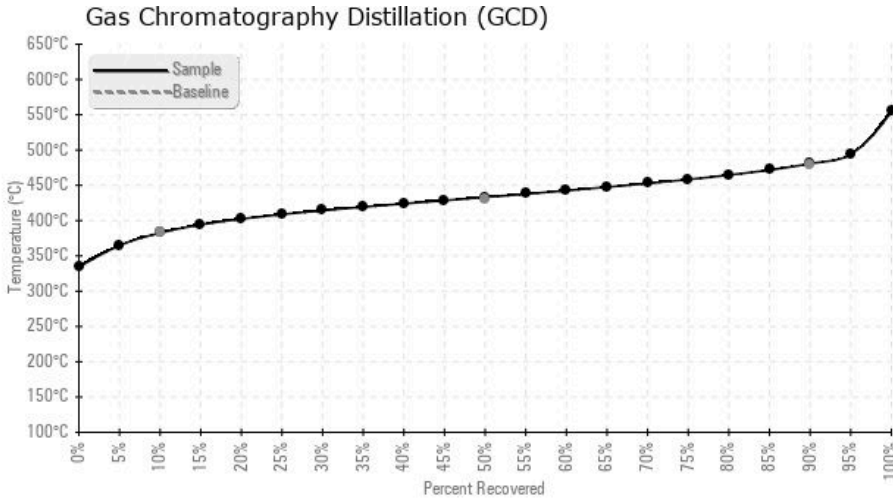
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
08/28/18	09/04/18	12y		419 / 215	40.1	39.1	0.80	0.321	721 / 383	812 / 433	897 / 481	0.08
09/19/17	09/22/17	11y		419 / 215	23.0	38.9	0.87	0.559	718 / 381	814 / 435	897 / 481	1.42
10/04/16	10/11/16	10y		423 / 217	467.2	39.5	1.11	0.338	721 / 383	818 / 437	899 / 482	1.04
03/06/15	03/12/15	9y		415 / 213	12.0	39.8	0.78	0.075	720 / 382	819 / 437	902 / 483	1.65
01/31/14	02/07/14	8y	PTRHTF40090	423 / 217	41.1	38.6	0.95	0.356	718 / 381	820 / 438	903 / 484	1.73
09/06/11	09/09/11			444 / 229	44	37.7	0.26	0.014	719 / 382	816 / 435	902 / 483	1.773
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	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
08/28/18	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	82	8
09/19/17	20	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	93	3
10/04/16	7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	100	2
03/06/15	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	108	0
01/31/14	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	107	1
09/06/11	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4	1	11	0	107	7
Baseline Data			0	0						0			0	0					0				230	

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



Historical Comments	
09/19/17	Beware of the insoluble matter that is creeping up, all other parameters look OKAn increase in the iron level is noted. All other component wear rates are normal. Pentane Insolubles levels are abnormally high.
10/04/16	Unusual amount of water detected. Could be condensation from sample - check where water may have ingress. Oil appears to be in good condition and fit for further service. Water contamination levels are marginally high. Water contamination levels are marginally high.. ppm Water contamination levels are marginally high.
03/06/15	Oil appears to be in very good condition.Suggest resample at next scheduled maintenance interval.
01/31/14	Oil appears to be in very good condition.Sample at next scheduled maintenance service.
09/06/11	

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