

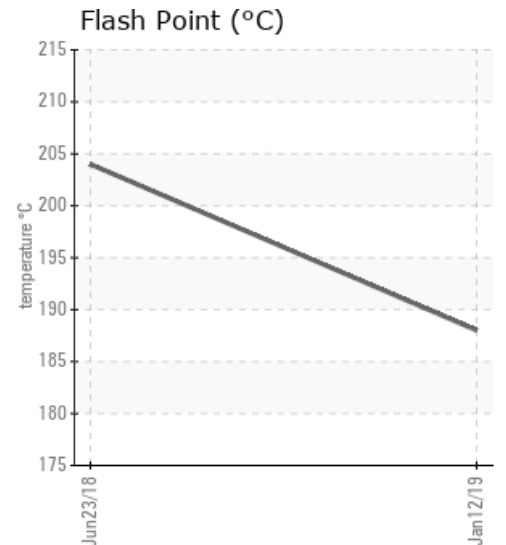
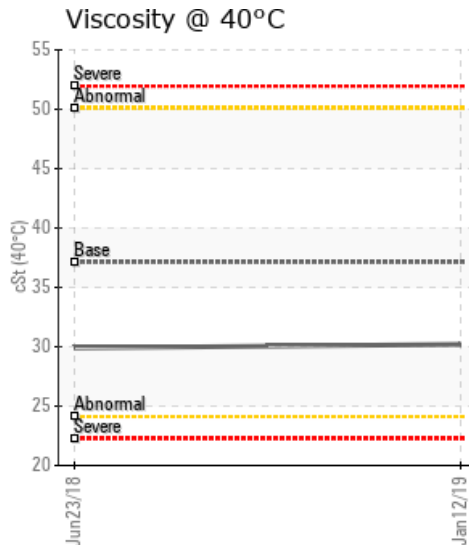
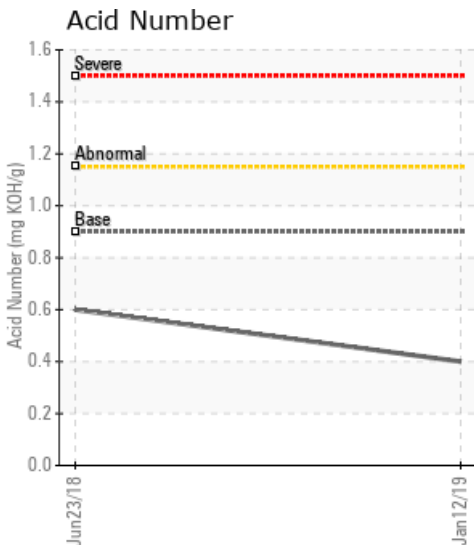
KAONA FUTHER 3

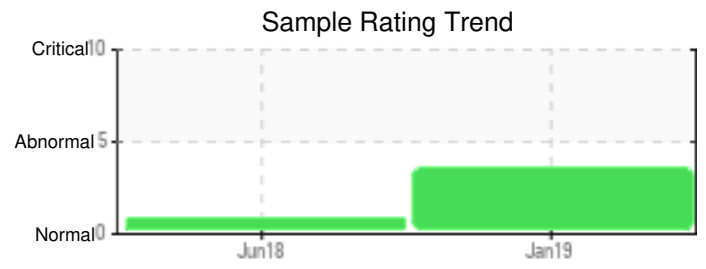
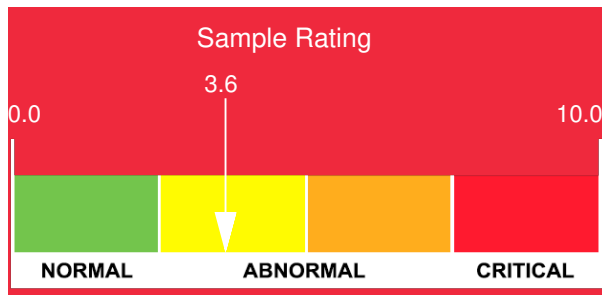
Customer: PTRHTF60010	System Information	Sample Information
SYNLUBE INTERNATIONAL CO LTD 76/1 MOO.7 THACHIN MUANG SAMUTSAKHON, 74000 THAILAND Attn: CHERNPORN CHOBKUI Tel: 034421290 E-Mail: chernporn@synlube.co.th	System Volume: 4400 ltr Bulk Operating Temp: 545F / 285C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make:	Lab No: 02264069 Analyst: Yutong Gao Sample Date: 01/12/19 Received Date: 01/23/19 Completed: 01/24/19

Recommendation: The current fluid has normal viscosity, low acid number, low oxidation, and low solid deposit. It is suitable for further operation. The reduced flash point is because of the minor thermal cracking at the extremely high working temperature. The system venting is recommended to release the low boilers. Please take one sample in 12 months to monitor the fluid conditions.

Comments:

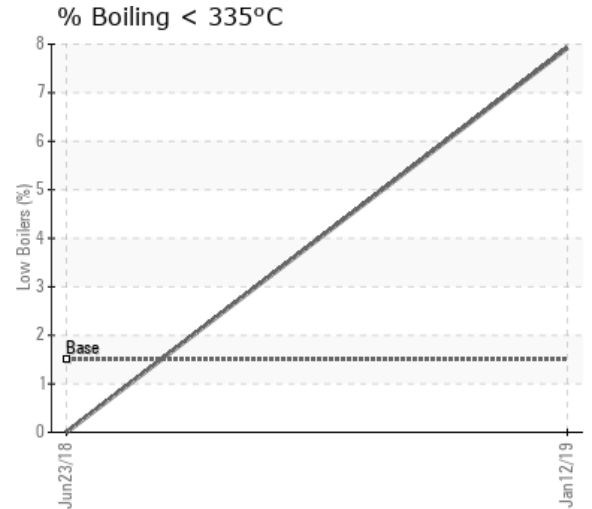
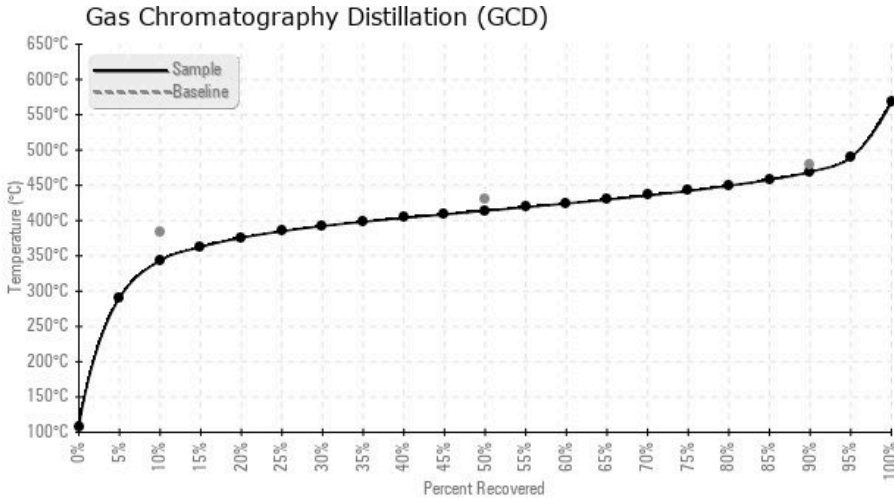
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/12/19	01/23/19	8m	SUPPLY RETURN	370 / 188	11.1	30.2	0.40	0.040	650 / 344	777 / 414	876 / 469	7.92
06/23/18	07/13/18	8m	SUPPLY/RETURN	399 / 204	6.8	29.9	0.60	0.206	728 / 386	796 / 424	892 / 478	0.00
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
01/12/19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0
06/23/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4
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

06/23/18	The current fluid has normal viscosity, flash point, solid level, water level and distillation points. It is suitable for further operation. Please take one sample in 12 months to monitor the conditions. COC Flash Point is marginally low.