

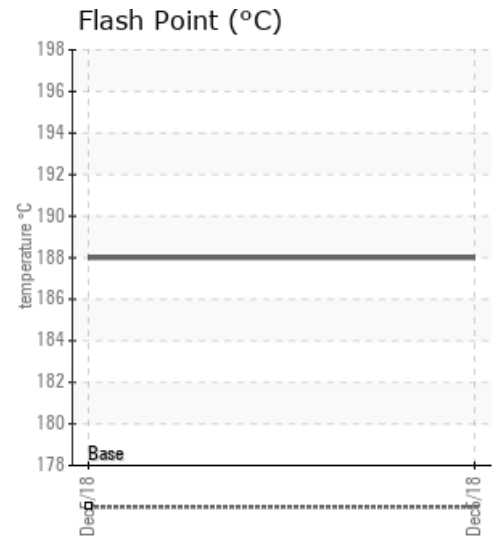
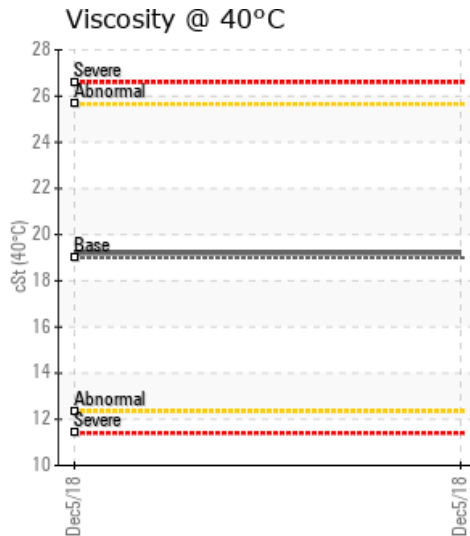
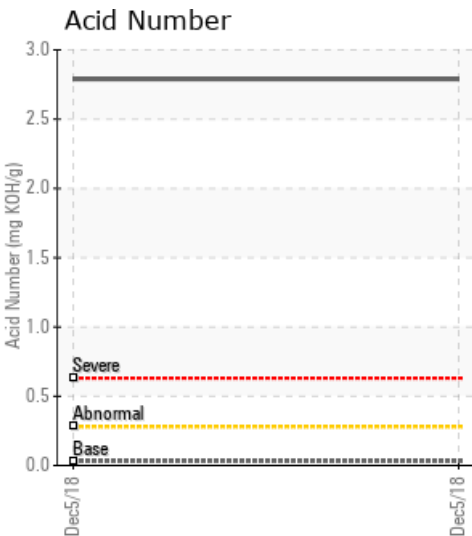
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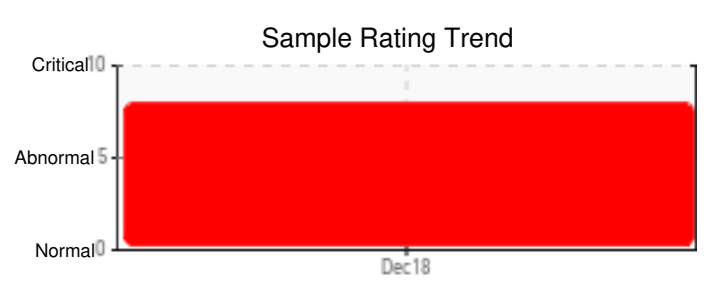
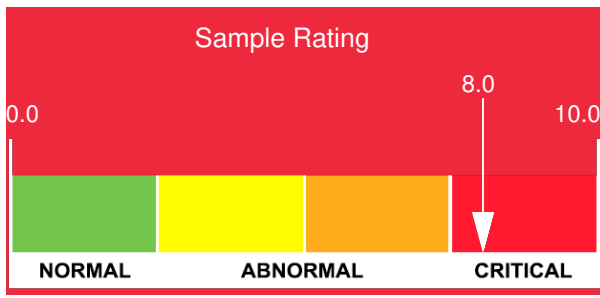
Customer: PTRHTF60010	System Information	Sample Information
SYNLUBE INTERNATIONAL CO LTD 76/1 MOO.7 THACHIN MUANG SAMUTSAKHON, 74000 THAILAND Attn: CHERNPORN CHOBKUI Tel: 034421290 E-Mail: chernporn@synlube.co.th	System Volume: 11500 ltr Bulk Operating Temp: 482F / 250C Heating Source: Blanket: Fluid: MONSANTO THERMINOL 55 Make:	Lab No: 02259674 Analyst: Yutong Gao Sample Date: 12/05/18 Received Date: 12/28/18 Completed: 01/03/19

Recommendation: The current fluid has elevated viscosity, acid number and solid contents due to the severe oil oxidation. Especially, the extremely high acid number indicates the fluid needs to be changed. Please plan and schedule the fluid change soon.

Comments: Solid levels are severely high. Acid Number (AN) is severely high. (GCD) % < 335°C is marginally high.

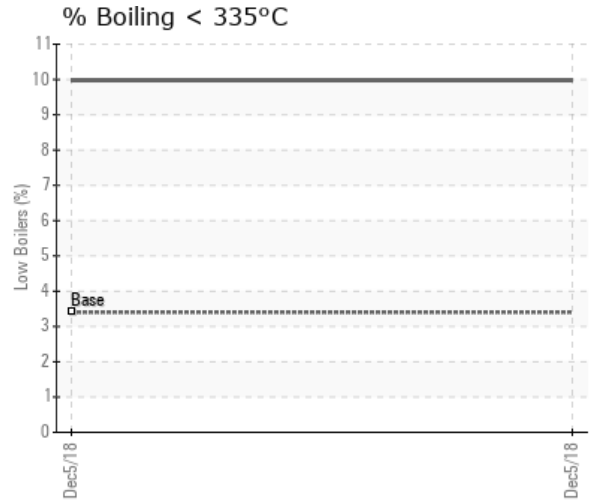
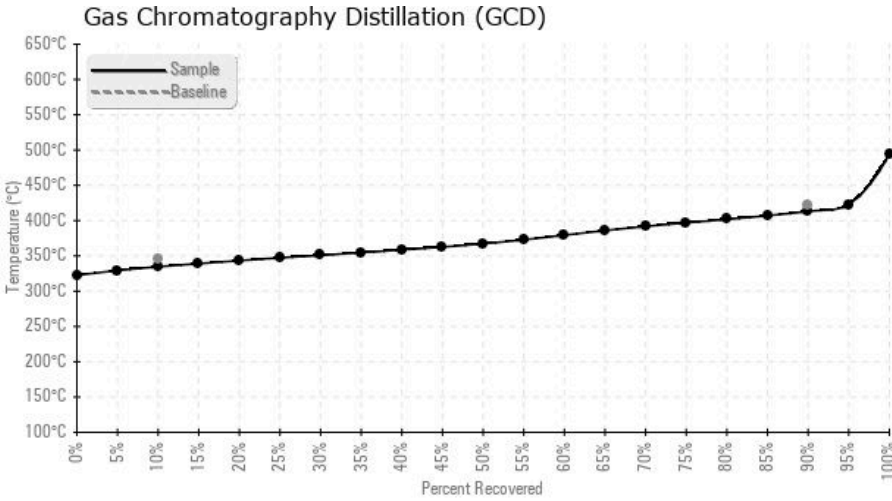
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/05/18	12/28/18	96m		370 / 188	85.1	19.2	2.79	0.778	634 / 335	693 / 367	776 / 413	9.98
Baseline Data				349 / 176		19.0	0.03		655 / 346		790 / 421	3.40





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	
12/05/18	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	2	
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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