

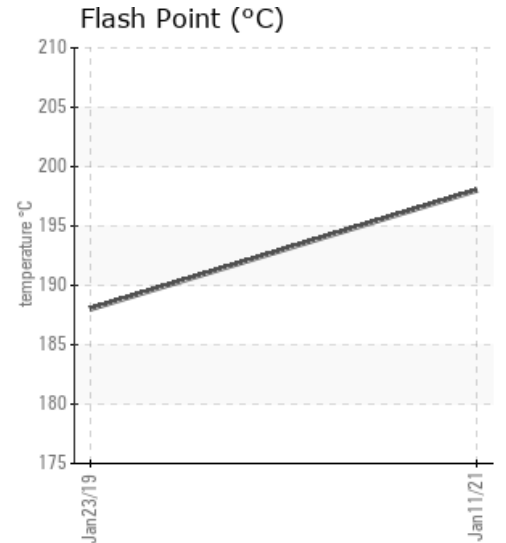
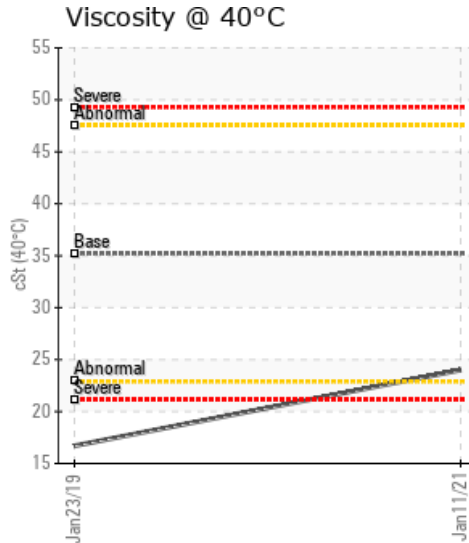
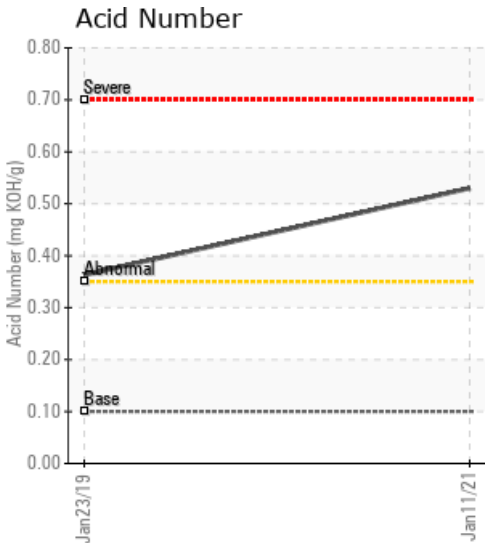
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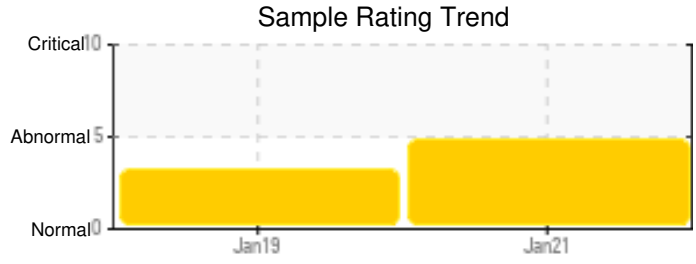
Customer: PTRHTF60010	System Information	Sample Information
SYNLUBE INTERNATIONAL CO LTD 76/1 MOO.7 THACHIN MUANG SAMUTSAKHON, 74000 THAILAND Attn: CHERNPORN CHOBKUI Tel: 034421290 E-Mail: chernporn@synlube.co.th	System Volume: 13000 ltr Bulk Operating Temp: 482F / 250C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO HTF Make:	Lab No: 02399575 Analyst: Philip Riley Sample Date: 01/11/21 Received Date: 01/25/21 Completed: 02/08/21 Philip Riley philip.riley@hollyfrontier.com

Recommendation: Viscosity low and some evidence of thermal cracking looking at the GCD Curve. FLash Pt is marginally low and not of immediate concern. Need to investigate why the viscosity is so low

Comments:

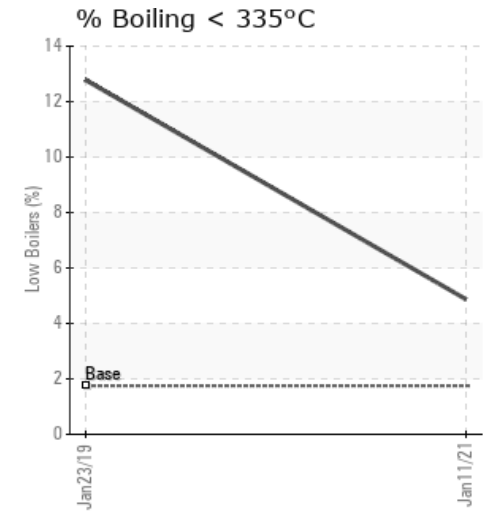
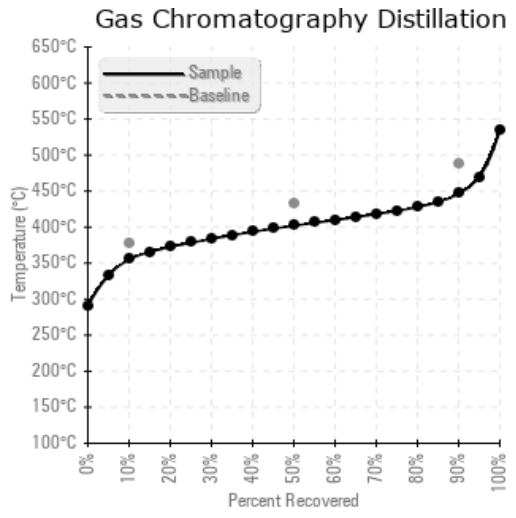
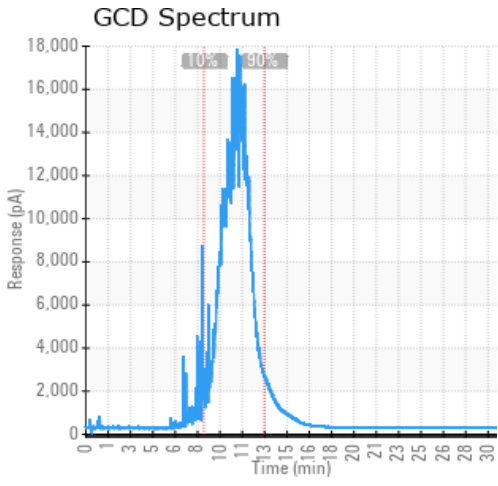
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/11/21	01/25/21	15m		388 / 198	22.5	24.0	0.53	0.125	671 / 355	755 / 402	835 / 446	4.87
01/23/19	02/27/19	6m	SUPPLY RETURN	370 / 188	15.6	16.7	0.363	0.067	629 / 332	685 / 363	787 / 420	12.78
Baseline Data				448 / 231		35.20	.1		712 / 378	810 / 432	910 / 488	1.75





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
01/11/21	26	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	6	0	0
01/23/19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Baseline Data			0	0						0			0	0				0	0					280

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



Historical Comments

01/23/19	The current fluid has normal flash point. The contaminant levels are all low. The viscosity is lower than the fresh oil, but it is still acceptable. The fluid has experienced moderate oxidation due to the elevated acid number. Please continue to run the fluid and take one sample in 12 months to monitor the conditions. Acid Number (AN) is high. (GCD) % < 335°C is high.

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