

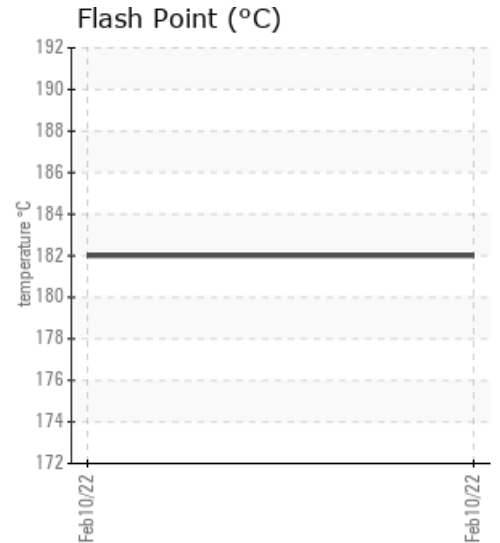
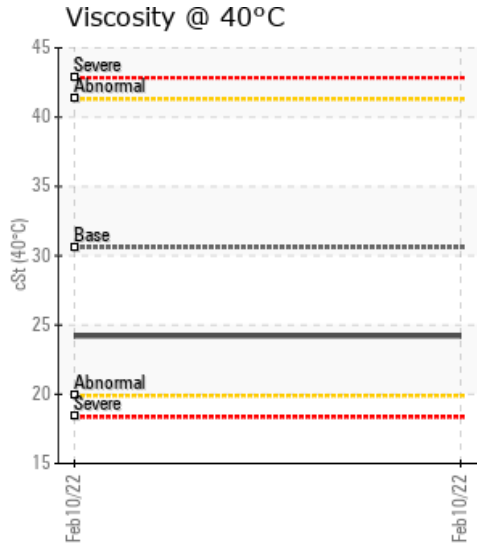
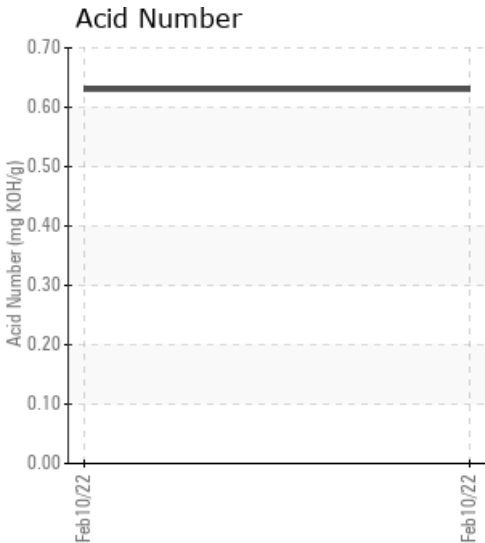
## METRO M.D.F. CO., LTD

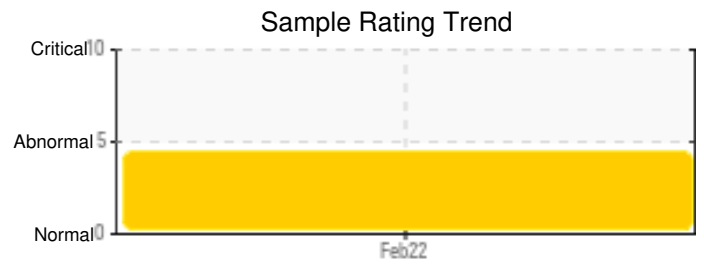
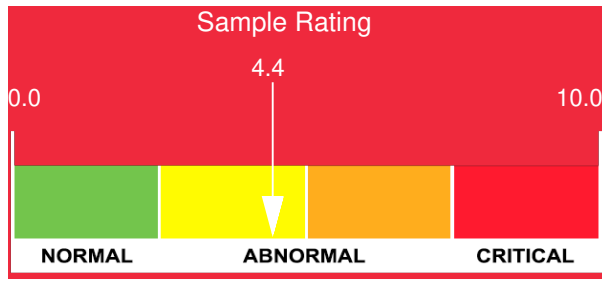
Customer: PTRHTF60010	System Information	Sample Information
SYNLUBE INTERNATIONAL CO LTD 76/1 MOO.7 THACHIN MUANG SAMUTSAKHON, 74000 THAILAND Attn: CHERNPORN CHOBKUI Tel: 034421290 E-Mail: chernporn@synlube.co.th	System Volume: 230000 ltr Bulk Operating Temp: 536F / 280C Heating Source: Blanket: Fluid: TOTAL SERIOLA 1510 Make:	Lab No: 02477391 Analyst: Philip Riley Sample Date: 02/10/22 Received Date: 03/15/22 Completed: 03/21/22 Philip Riley philip.riley@hollyfrontier.com

Recommendation: Unfamiliar with the specific chemistry as competitor fluid, however, there is clear evidence of fluid breakdown. The pentane insoluble are high, and the viscosity has reduced approx. 20% from fresh oil value. You need to look towards a scheduled fluid change with clean and flush, replacement would be CALFLO HTF

Comments: Pentane Insolubles levels are abnormally high. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low. COC Flash Point is marginally low.

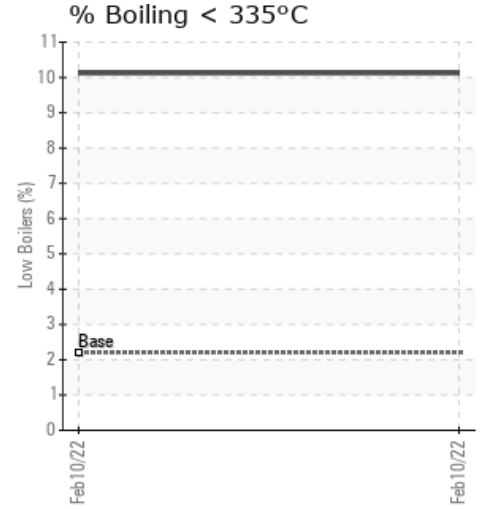
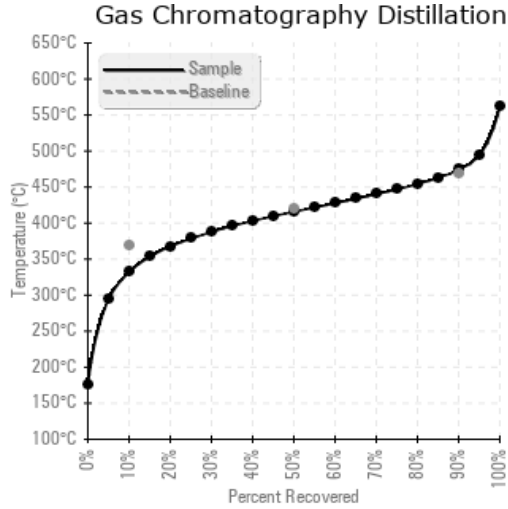
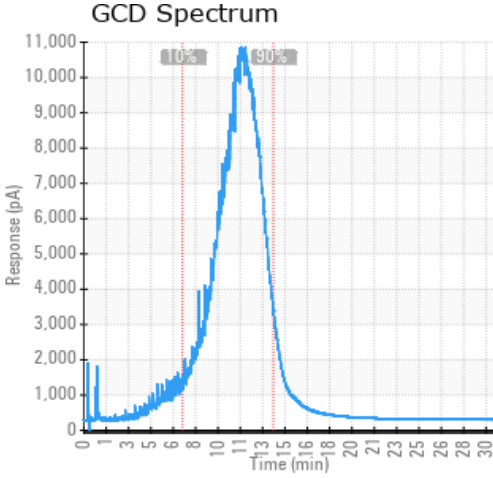
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/10/22	03/15/22	8.0y	supply and return	360 / 182	48.9	24.2	0.63	0.484	629 / 332	780 / 416	885 / 474	10.12
Baseline Data				437 / 225		30.6			696 / 369	786 / 419	874 / 468	2.2





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
02/10/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Baseline Data</b>			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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