

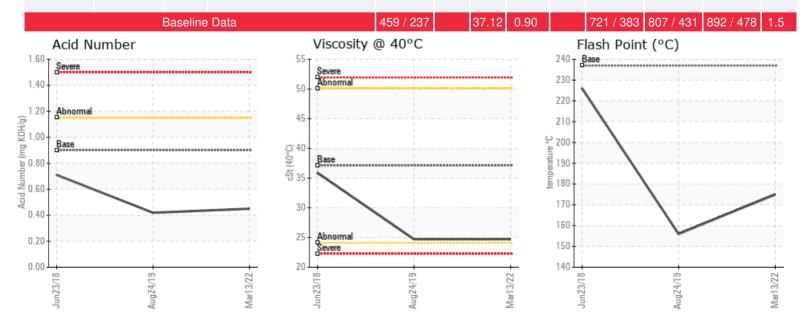
## **KAONA FUTHER 4**

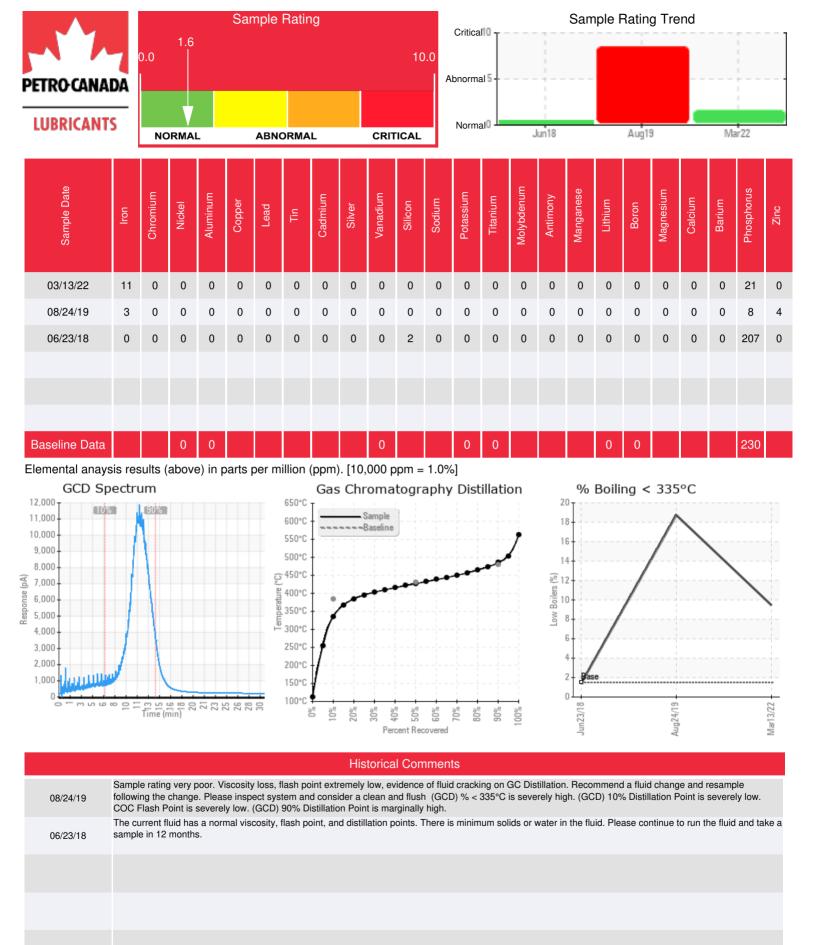
Customer: PTRHTF60010	System Information	Sample Information
SYNLUBE INTERNATIONAL CO LTD	System Volume: 4400 ltr	Lab No: 02480437
76/1 MOO.7 THACHIN	Bulk Operating Temp: 545F / 285C	Analyst: Philip Riley
MUANG SAMUTSAKHON, 74000	Heating Source:	Sample Date: 03/13/22
THAILAND	Blanket:	Received Date: 03/30/22
Attn: CHERNPORN CHOBKUI	Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID	Completed: 04/05/22
Tel: 034421290	Make:	Philip Riley
E-Mail: chernporn@synlube.co.th		philip.riley@hollyfrontier.com

Recommendation: Has this oil been changed since the previous sample? If so, was there a clean and flush? The previous sample was worse in terms of flash point, evidence of cracking, GCD distillation points, low viscosity. However, the current situation the above mentioned physical characteristics remain off spec and of potential consequence. Please feedback what has happened with this fluid, if it was changed then the change probably had no clean and flush and there is carryover from previous fluid. If the fluid was vented to recover flash point for example, it has partially done this, but you need to look to change this fluid with a clean and flush

Comments: COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (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	%
03/13/22	03/30/22	8.0y	SUPPLY RETURN	347 / 175	53.5	24.7	0.45	0.048	636 / 336	800 / 427	904 / 485	9.45
08/24/19	10/04/19	1.0y	SUPPLY RETURN	313 / 156	9.8	24.7	0.419	0.055	461 / 238	790 / 421	912 / 489	18.73
06/23/18	07/13/18	0.0y	RETURN	439 / 226	0.00	35.9	0.71	0.007	702 / 372	800 / 426	904 / 485	1.40





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