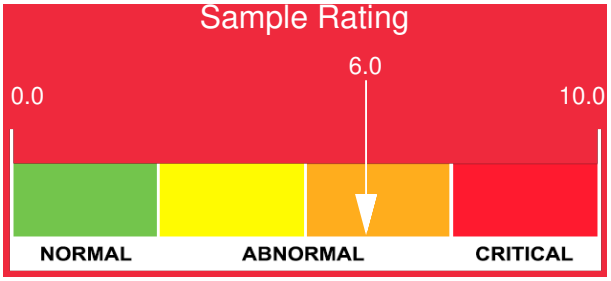
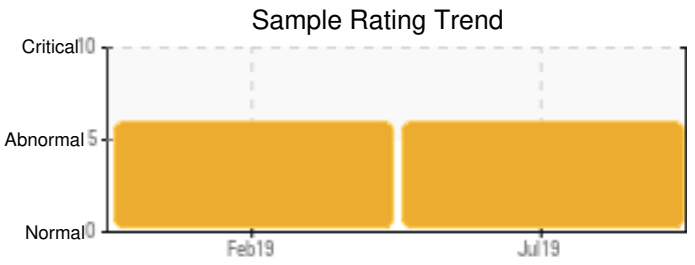




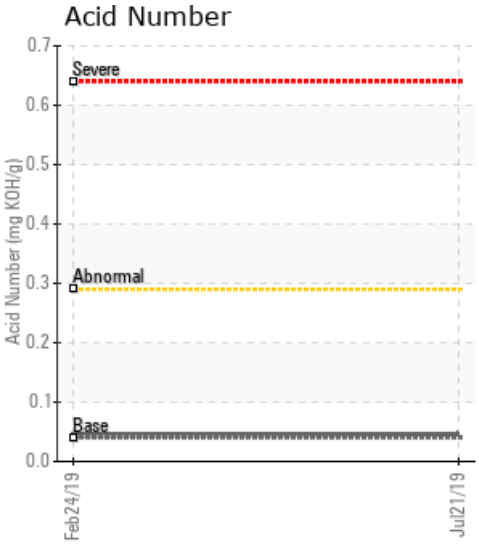
MEYN FULTON BOILER

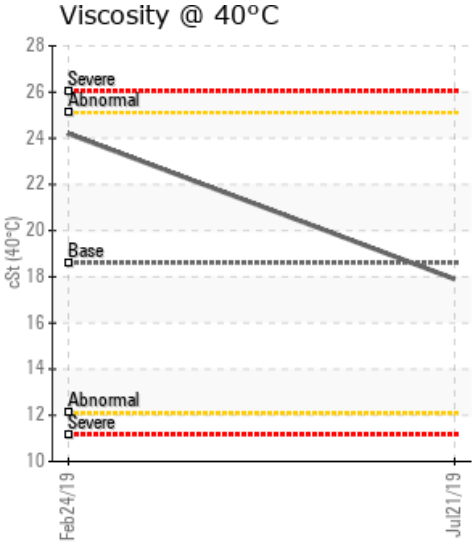
Customer: PTRHTF30126	System Information	Sample Information
MAPLE LEAF FOODS 333 COURTNEYPARK DR E MISSISSAUGA, ON L5T 2T6 Canada Attn: James Budan Hughes Tel: (905)565-9388 E-Mail: james.budanhughes@mapleleaf.com	System Volume: 0 ltr Bulk Operating Temp: 650F / 343C Heating Source: Blanket: Fluid: PARATHERM NF Make: FULTON THERMAL CORP	Lab No: 02298694 Analyst: Lynn Billings Sample Date: 07/21/19 Received Date: 07/23/19 Completed: 07/26/19

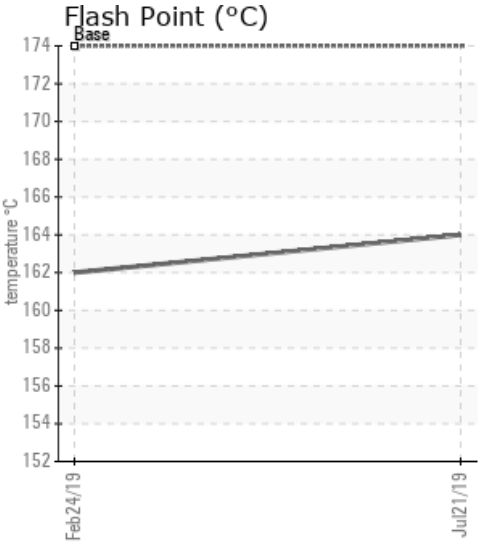
Recommendation: The GCD still definitely shows that it has picked up low boiling material, thus suspect thermal cracking as well as oxidation. The viscosity is lower from last test in February 2019. Could be that the sludge/deposits are within the system or differences in sampling practice. The insolubles have increased since last test.

Comments: (GCD) % < 335°C is severely high. (GCD) 90% Distillation Point is severely high.

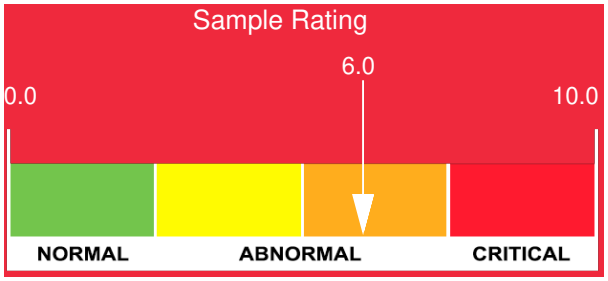
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/21/19	07/23/19	0y	Y STRAINER	327 / 164	23.1	17.9	0.046	0.061	563 / 295	672 / 356	792 / 422	32.46
02/24/19	02/28/19	10y	Y STAINET BLOW DOWN	324 / 162	0.00	24.2	0.044	0.048	562 / 294	663 / 351	789 / 421	35.83
Baseline Data				345 / 174		18.6	0.04		615 / 324		747 / 397	16.42

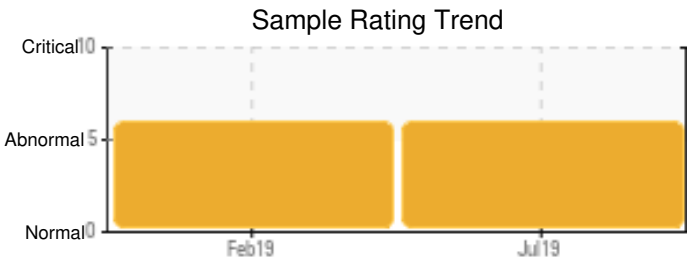






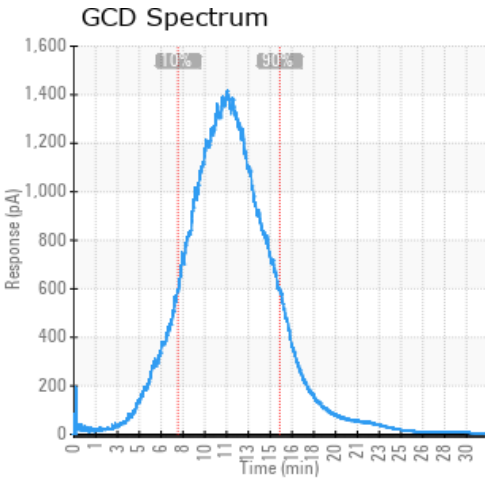
PETRO-CANADA LUBRICANTS

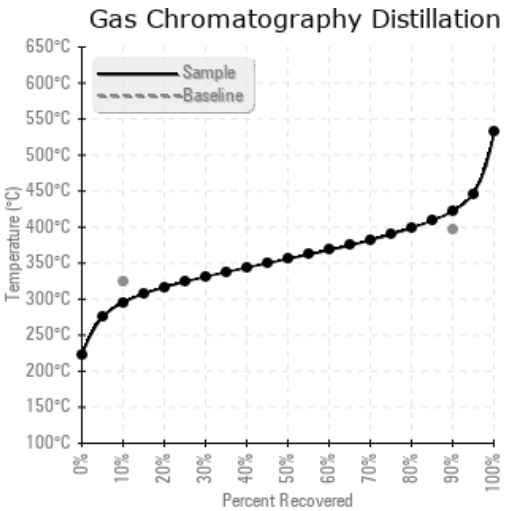


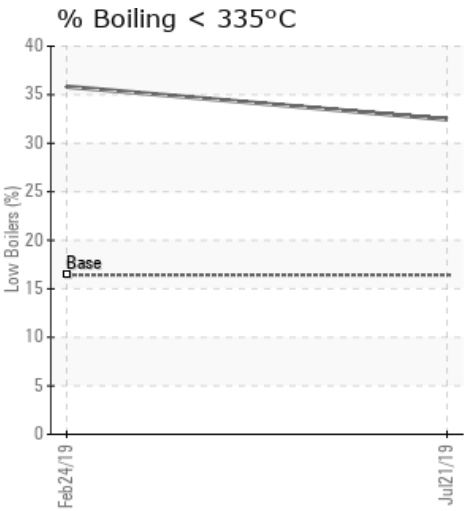


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
07/21/19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02/24/19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0	

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







Historical Comments

02/24/19	The GCD definitely has picked up low boiling material so suspect thermal cracking as well as oxidation. The viscosity has increased as well which indicates oxidation (sludge and carbon). This sludge and carbon will deposit within the system. (GCD) % < 335°C is severely high. (GCD) 90% Distillation Point is severely high.