

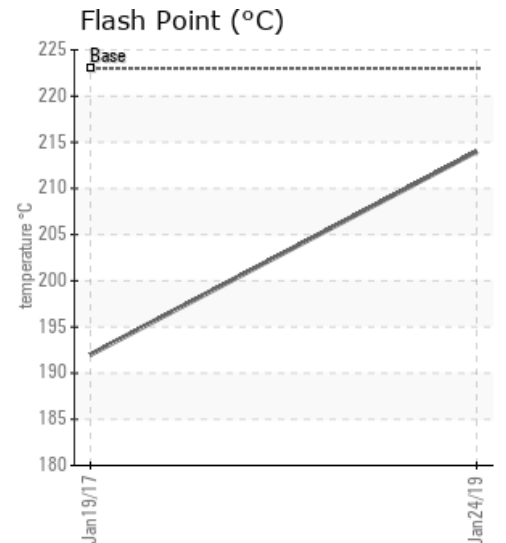
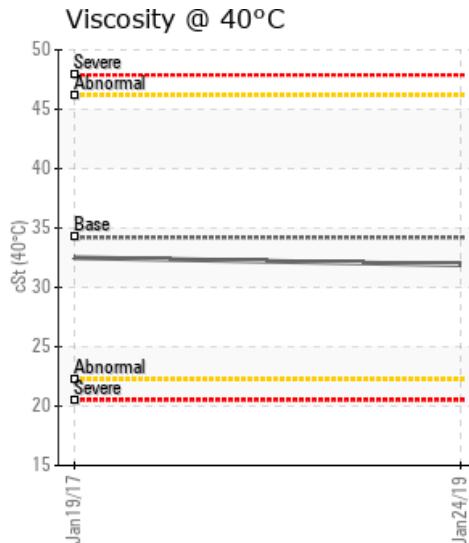
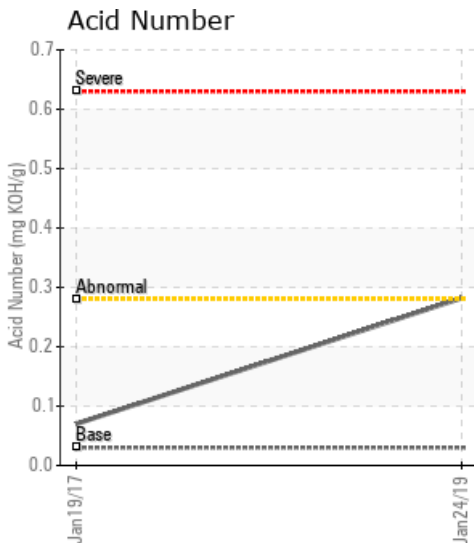
## TPC800LNE

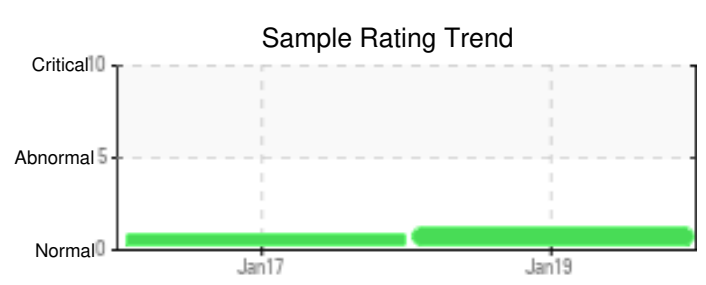
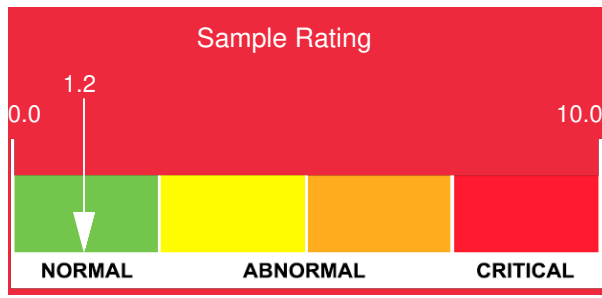
Customer: PTRHTF40122	System Information	Sample Information
VAN DE RAA MEAT & MORE BOLDERWEG 45 ALMERE, 1332 BA Netherlands Attn: Wilbert Snijers Tel: E-Mail: w.snijers@klt.nl	System Volume: 1400 ltr Bulk Operating Temp: 527F / 275C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: WANSON	Lab No: 02265956 Analyst: Philip Riley Sample Date: 01/24/19 Received Date: 02/04/19 Completed: 02/05/19

Recommendation: Acidity crept upwards, however 2 years since last sample, no abnormal elemental analysis detected as a result. Flash point improved from previous sample, this has been recovered. Suggest monitoring at next sample frequency of 1 year to check on acid number creep if it does and take action then. No other immediate areas for concern

Comments: Acid Number (AN) is abnormally high.

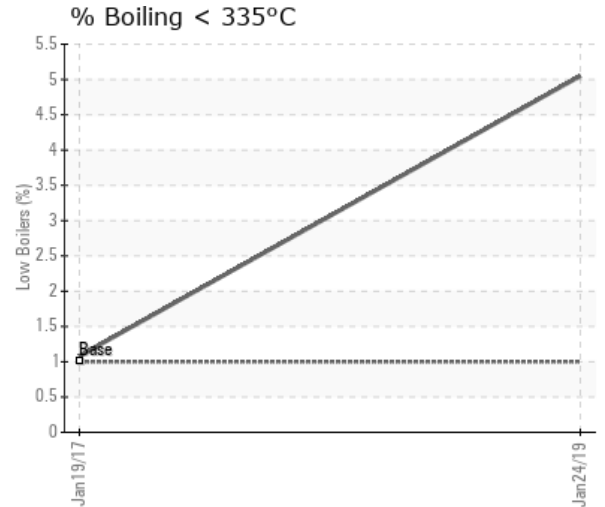
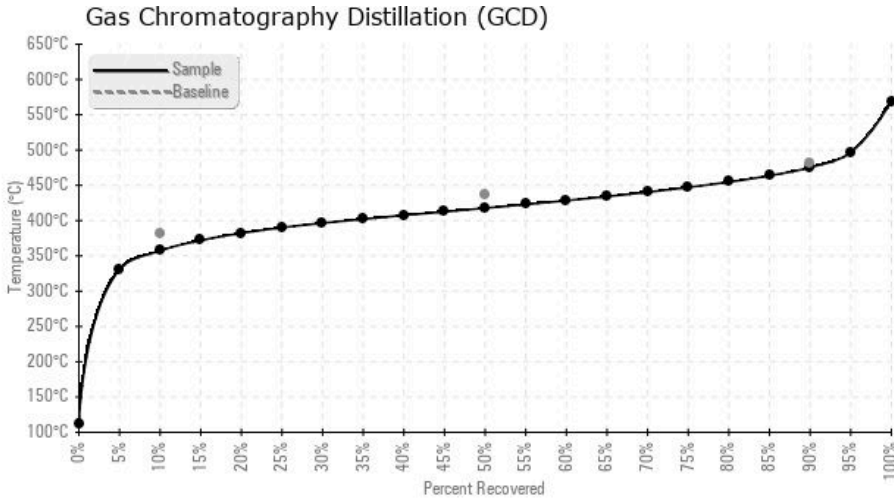
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/24/19	02/04/19	7y		417 / 214	40.7	31.9	0.282	0.070	675 / 357	784 / 418	888 / 475	5.05
01/19/17	01/27/17	5y		378 / 192	60.1	32.5	0.07	0.059	715 / 380	809 / 432	909 / 487	1.08
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
01/24/19	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01/19/17	3	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 analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



### Historical Comments

01/19/17	Oil appears fit for further service. Suggest sample at next scheduled maintenance interval. COC Flash Point is marginally low.

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