

TPC1650LN

Customer: PTRHTF40111
 CODRICO ROTTERDAM B.V
 RYNHAVEN 2.2.15
 ROTTERDAM, 3072AJ Netherlands
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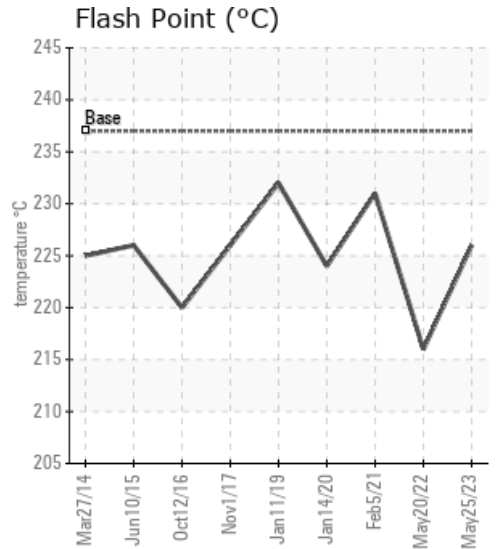
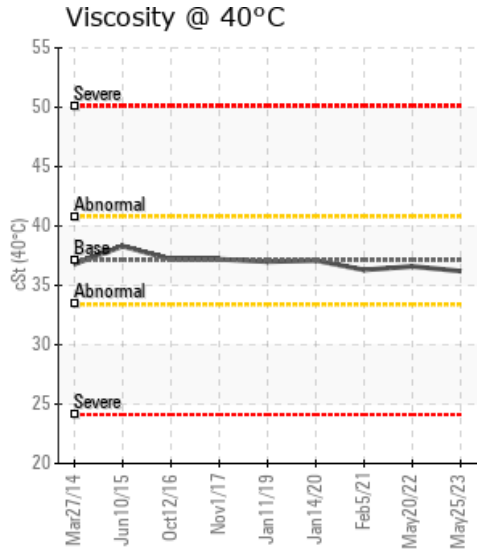
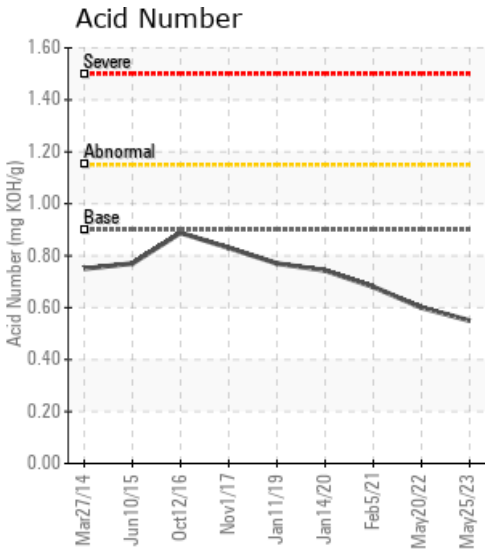
System Information
 System Volume: 3600 ltr
 Bulk Operating Temp: 392F / 200C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID
 Make: WANSON

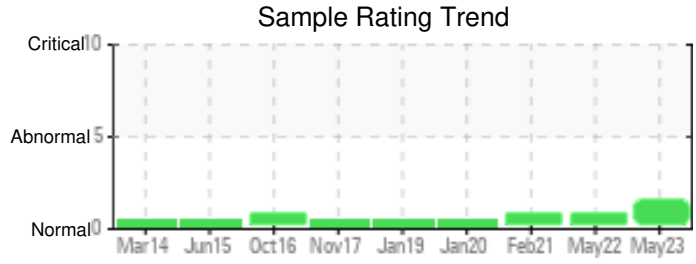
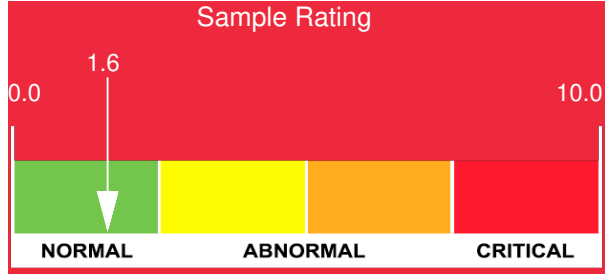
Sample Information
 Lab No: 02561990
 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I
 Sample Date: 05/25/23
 Received Date: 06/05/23
 Completed: 06/15/23
 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: The fluid is suitable for further service. Resample at the next service interval to monitor.

Comments: Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. (GCD) 90% Distillation Point is marginally high.

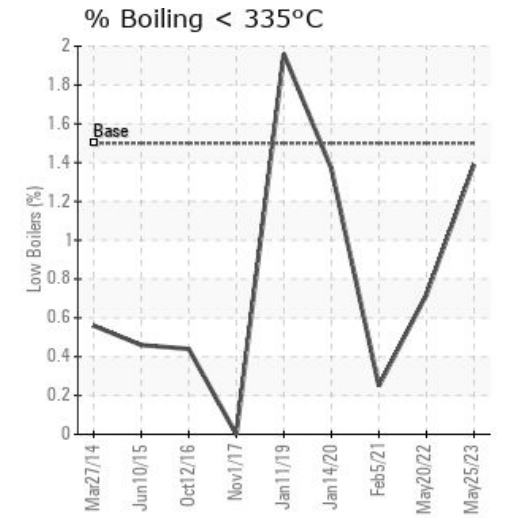
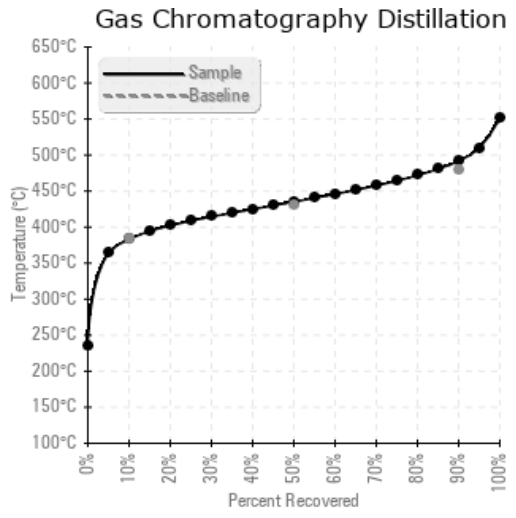
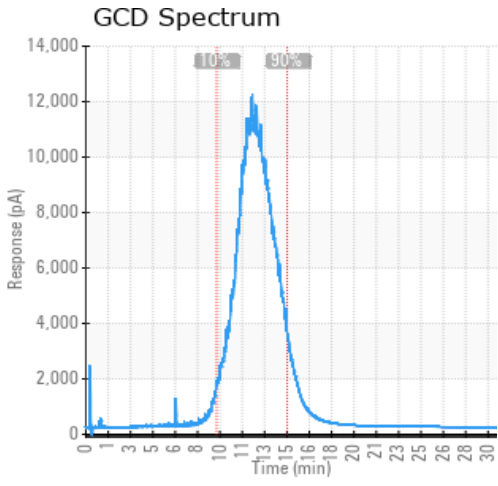
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/25/23	06/05/23	9.0y		439 / 226	16.9	36.2	0.55	0.113	721 / 383	815 / 435	917 / 492	1.39
05/20/22	05/27/22	8.0y		421 / 216	15.5	36.6	0.60	0.090	724 / 384	815 / 435	915 / 491	0.72
02/05/21	02/22/21	7.0y		448 / 231	4.3	36.3	0.68	0.069	725 / 385	814 / 435	913 / 490	0.25
01/14/20	01/20/20	6.0y		435 / 224	14.0	37.1	0.743	0.077	730 / 388	803 / 428	893 / 479	1.37
01/11/19	01/22/19	0.0y		450 / 232	6.3	37.0	0.77	0.040	679 / 360	775 / 413	881 / 472	1.96
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
05/25/23	205	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	133	4
05/20/22	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	2
02/05/21	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131	0
01/14/20	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177	1
01/11/19	41	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	184	2
Baseline Data			0	0						0			0	0				0	0				230	

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



Historical Comments	
05/20/22	Oil appears in good condition and is fit for further use. Please re-sample at normal frequency (GCD) 90% Distillation Point is marginally high.
02/05/21	Oil appears in good condition and is fit for further use. Please re-sample at normal frequency (GCD) 90% Distillation Point is marginally high.
01/14/20	All parameters test within normal limits and fluid fit for further use. Note there is a low molecule peak evident but does not seem to affect the COC Flash Pt. Please resample in 12 months
01/11/19	Fluid is in good conditions fully suitable for farther operation.

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