

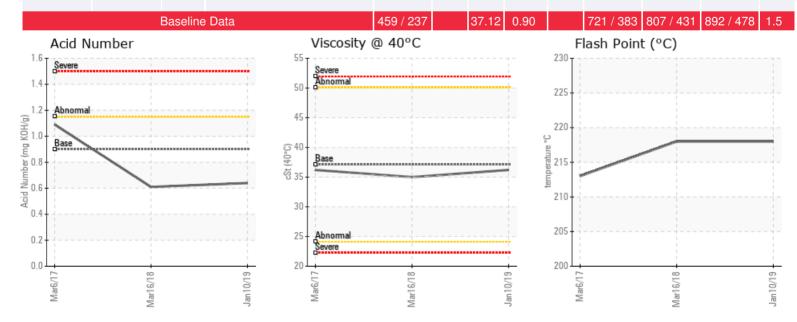
## **FERROLLI RLICOIL 400**

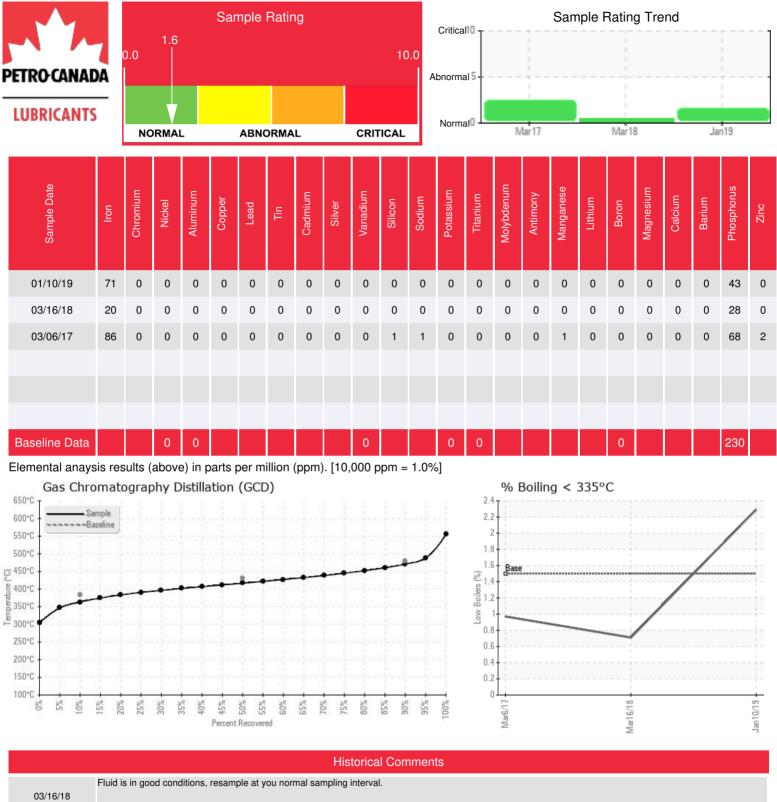
Customer: PTRHTF40108	System Information	Sample Information
WILTHAGEN VLEESWAREN	System Volume: 600 ltr	Lab No: 02262369
ENERGIE WEG 1	Bulk Operating Temp: 475F / 246C	Analyst: Philip Riley
THOLEN, 4691SE Netherlands	Heating Source:	Sample Date: 01/10/19
Attn: Wilbert Snijers	Blanket:	Received Date: 01/15/19
Tel:	Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID	Completed: 01/17/19
E-Mail: w.snijers@klt.nl	Make: FERROLI	

Recommendation: Recommend to conduct some form of removal of insoluble if this can be done safely. All other parameters meet specification, and from historic data it looks like the system has been high in insoluble before therefore can be resolved.

Comments: Pentane Insolubles levels are 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	%
01/10/19	01/15/19	Зу		424 / 218	58.3	36.2	0.64	0.878	686 / 363	782 / 417	880 / 471	2.29
03/16/18	03/22/18	2у		424 / 218	19.3	35.0	0.61	0.341	723 / 384	821 / 438	906 / 486	0.71
03/06/17	03/10/17	1y		415 / 213	52.8	36.2	1.09	1.02	716 / 380	812 / 433	921 / 494	0.97





03/16/18	
03/06/17	Oil has higher than expected levels of debris - possibly last exchange was not completely cleansed. In this case the oil appears to be satisfactory for further use and a sample should be taken after 6 months for further analysis. Pentane Insolubles levels are severely high. (GCD) 90% Distillation Point is abnormally high.

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