

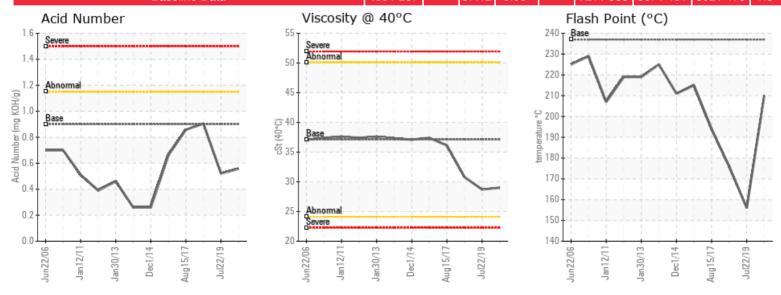
B150 GROEN

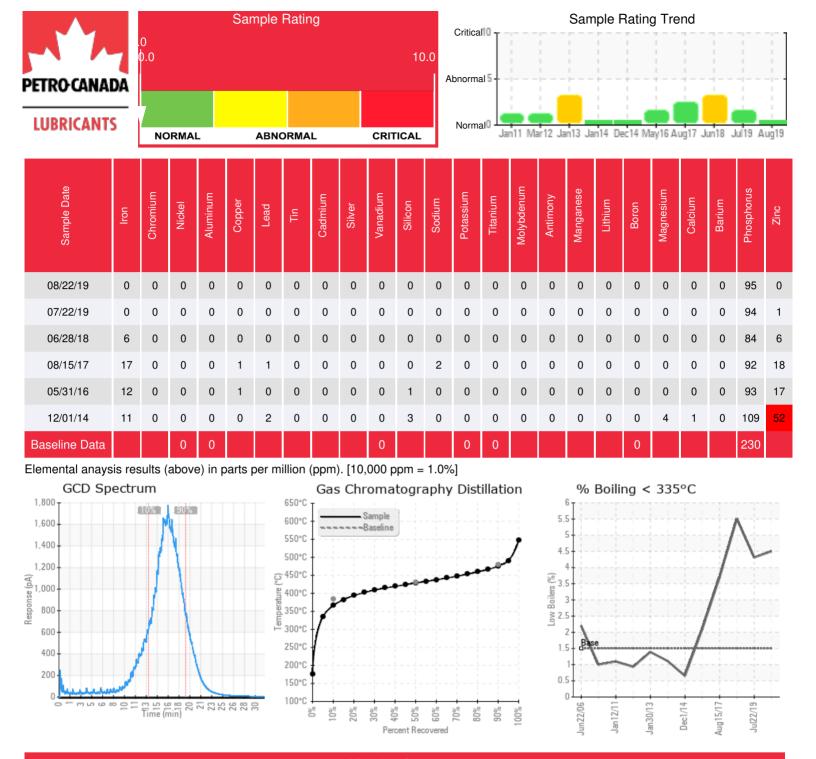
Customer: PTRHTF10078	System Information	Sample Information
WEST FORK CREATIONS	System Volume: 55 gal	Lab No: 02306725
15 PEPSI DRIVE	Bulk Operating Temp: 475F / 246C	Analyst: Ron LeBlanc
RED LODGE, MT 59068 USA	Heating Source:	Sample Date: 08/22/19
Attn: Sean Keeney	Blanket:	Received Date: 09/06/19
Tel: (406)426-3060	Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID	Completed: 09/10/19
E-Mail: foodsafety@kingscupboard.com	Make: STERLCO	

Recommendation: Sample is improved from previous sample. Sample looks normal. Re-sample in 3 months.

Comments:

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	%
08/22/19	09/06/19	6m	DRAIN	410 / 210	0.00	29.0	0.557	0.223	690 / 366	803 / 429	888 / 476	4.50
07/22/19	08/01/19	1m	DRAIN VALVE	313 / 156	20.9	28.7	0.521	0.185	690 / 366	801 / 427	885 / 474	4.31
06/28/18	07/23/18	5m	OIL DRAIN	349 / 176	78.3	30.8	0.905	1.24	685 / 363	803 / 428	897 / 481	5.51
08/15/17	08/25/17	12m		381 / 194	137.7	36.1	0.858	2.70	701 / 372	808 / 431	901 / 483	3.70
05/31/16	06/09/16	10m	DRAIN PLUG	419 / 215	83.6	37.4	0.66	0.707	709 / 376	805 / 429	895 / 480	2.10
12/01/14	12/12/14	8m	DRAIN	412 / 211	18.6	37.1	0.26	0.102	724 / 384	817 / 436	911 / 488	0.65
		Baseline	Data	459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





Historical Comments

07/22/19	The COC Flash Point has dropped over the last 2 samples. It might be due to where the sample is being taken or not purging enough oil before sample is drawn. The oil could have been overheated or severely taken up to operating temperature rapidly. Viscosity has dropped significantly in the last 2 samples. If possible add fresh oil to bring viscosity and COC Flash Point up. Take another sample and send in to verify results. COC Flash Point is severely low.
06/28/18	Pentane Insolubles levels are severely high. COC Flash Point is severely low. A small charge of new oil can bring the COC flash point up. Resample and purge extra oil out of sample port to get a good sample to confirm numbers. Pentane Insolubles levels are severely high. COC Flash Point is severely low.
08/15/17	Pentane insoluble have increased significantly. Determine entry point. Check filtration if equipped. Make sure sample was taken properly. Let the oil run freely for a short amount of time before capturing in container. Pentane Insolubles levels are severely high. COC Flash Point is marginally low.
05/31/16	Sample is in good condition but the pentane insolubles are high which is an indication of oxidation and sludging may be occurring. Re-sample at the next maintenance interval. Pentane Insolubles levels are severely high.
12/01/14	Zinc is fluctuating between samples. Determine the origin of Zn H20 is lower on this sample. TAN has stayed stable in the last 2 samples. Continue to sample oil at normal interval. Zinc ppm levels are severely high.

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