

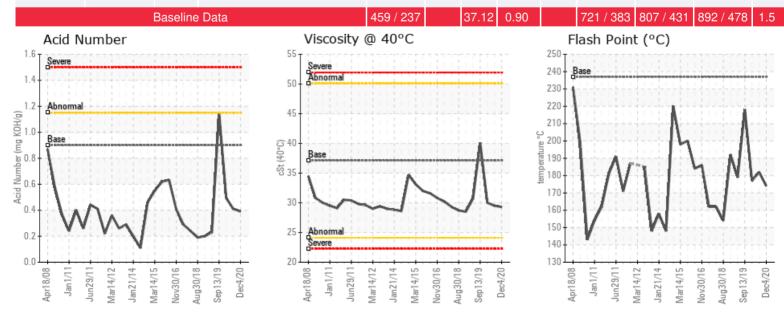
## WANSON EPC 2500 ES

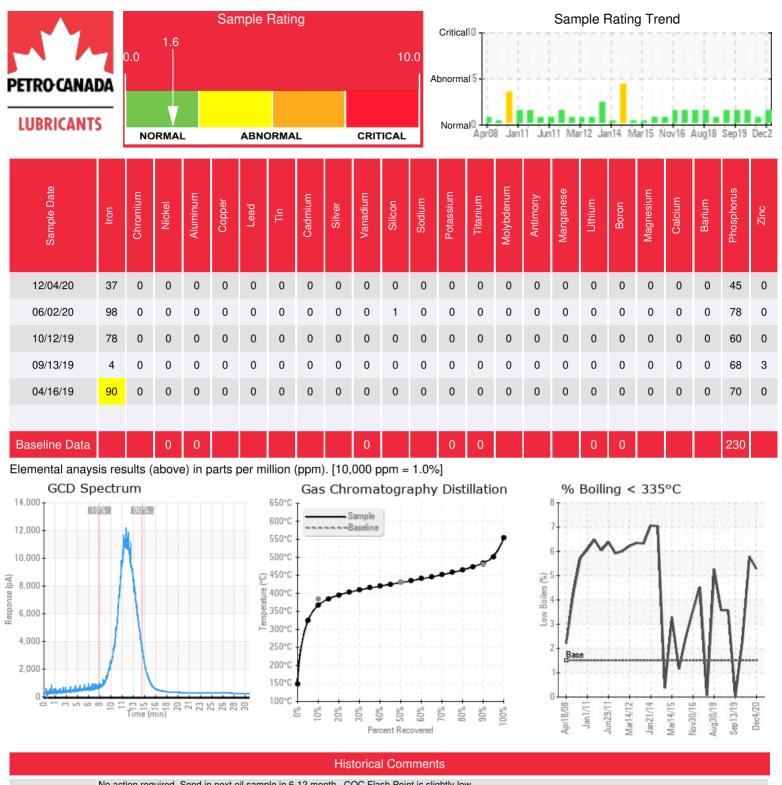
Customer: PTRHTF40020	System Information	Sample Information
LE DUC FINE FOOD BV	System Volume: 1500 ltr	Lab No: 02392468
MEESTER SNIJDERWEG 18	Bulk Operating Temp: 265F / 129C	Analyst: Matthias Voss
ZUID-HOLLAND	Heating Source:	Sample Date: 12/04/20
STELLENDAM, ZUI NETHERLANDS	Blanket:	Received Date: 12/11/20
Attn: Wilbert Snijers	Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID	Completed: 12/16/20
Tel:	Make: WANSON	Matthias Voss
E-Mail: w.snijers@klt.nl		Matthias.Voss@petrocanadalsp.com

Recommendation: Flash Point is severely low, but GCD % <335 is still on an acceptable level. Monitor trend and take action if number of low boilers further increase and flash point further decreases.

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	%
12/04/20	12/11/20	6у		345 / 174	11.3	29.3	0.39	0.162	692 / 367	805 / 430	903 / 484	5.28
06/02/20	06/09/20	6у		360 / 182	55.0	29.5	0.41	0.289	683 / 362	804 / 429	906 / 486	5.79
10/12/19	12/23/19	5у		351 / 177	40.4	30.0	0.494	0.304	698 / 370	789 / 421	884 / 473	2.29
09/13/19	09/19/19	5y		424 / 218	33.5	40.1	1.15	0.960	729 / 387	812 / 433	888 / 476	0.00
04/16/19	04/24/19	Oy		354 / 179	29.0	30.7	0.23	0.192	699 / 370	799 / 426	893 / 479	3.56





06/02/20	No action required. Send in next oil sample in 6-12 month. COC Flash Point is slightly low.
10/12/19	Going through the history of this sample it raises some concerns. In this current sample there has been a loss in viscosity of 10cSt from previous, and a significant drop in flash point to a level that is severely low. The curve shows a little evidence of cracking, but levels of low weight hydrocarbons look fairly low. SOme venting, if it can be done safely, may recover the flash point. I would attempt safe venting and re-sample. If it cannot be done a confirmation or another sample would be recommended as the step downwards in viscosity and flash point shows a worrying trend. COC Flash Point is severely low.
09/13/19	Was this an oil change? All parameters around Flash Point and viscosity seem to have recovered to normal levels, but the insoluble are very high. Try some filtration to remove insoluble matter and check at normal oil sample interval. Pentane Insolubles levels are severely high.
04/16/19	COC Flash Point trending downwards, and must show caution. If it can be recovered safely through any form of venting (although no great volume of light molecules look to be present) if would be worth doing to potentially extend the life of the fluid. Iron ppm levels are noted. COC Flash Point is abnormally low.

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