

## WANSON EPC 2500 ES

**Customer: PTRHTF40020**  
 LE DUC FINE FOOD BV  
 MEESTER SNIJDERWEG 18  
 ZUID-HOLLAND  
 STELLENDAM, ZUI NETHERLANDS  
 Attn: Wilbert Snijers  
 Tel:  
 E-Mail: w.snijers@klt.nl

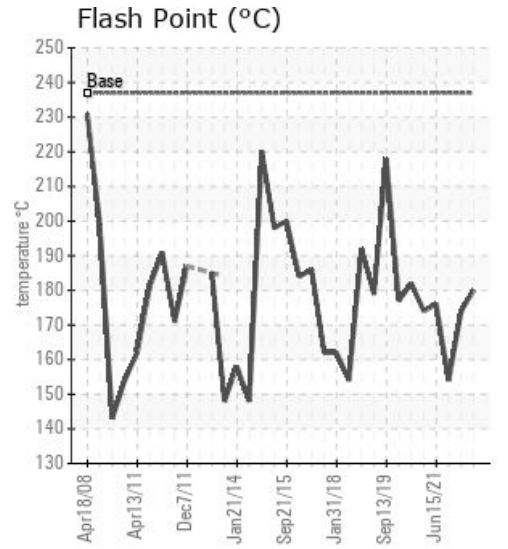
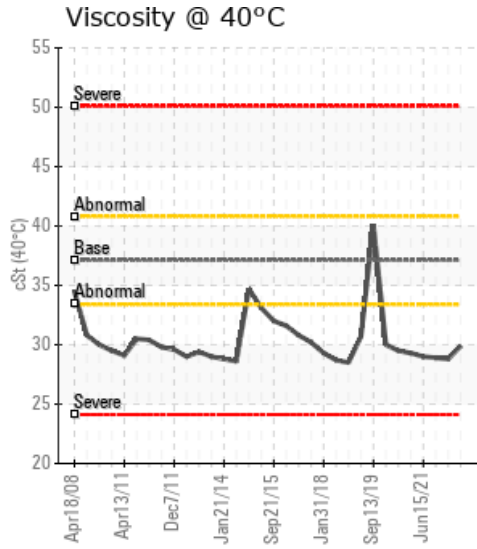
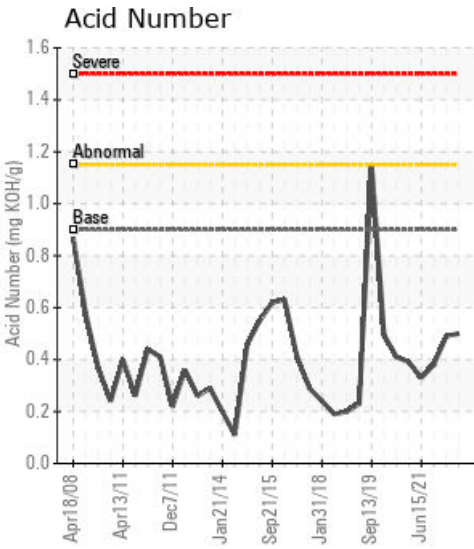
**System Information**  
 System Volume: 1500 ltr  
 Bulk Operating Temp: 265F / 129C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID  
 Make: WANSON

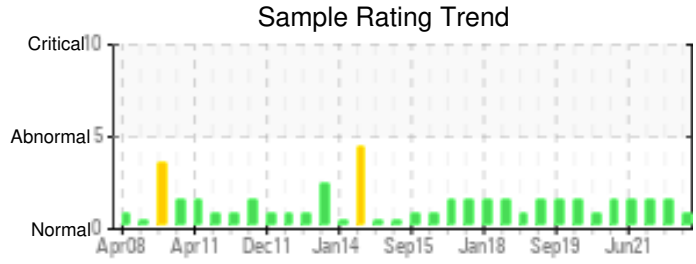
**Sample Information**  
 Lab No: 02518600  
 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I  
 Sample Date: 10/19/22  
 Received Date: 10/25/22  
 Completed: 11/18/22  
 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: Flash point has recovered more. Continue to vent the expansion tank to reduce low boilers. Resample at next interval to monitor.

Comments: COC Flash Point is abnormally low.

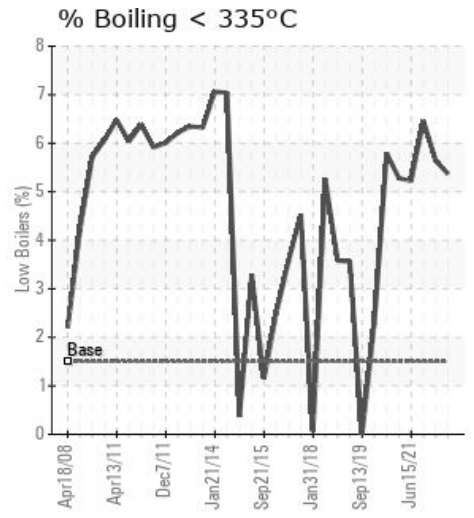
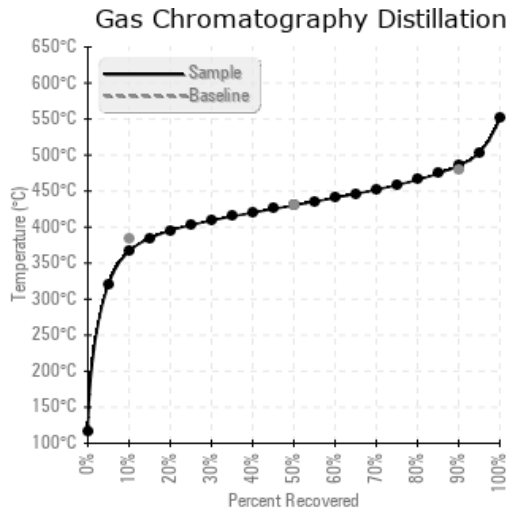
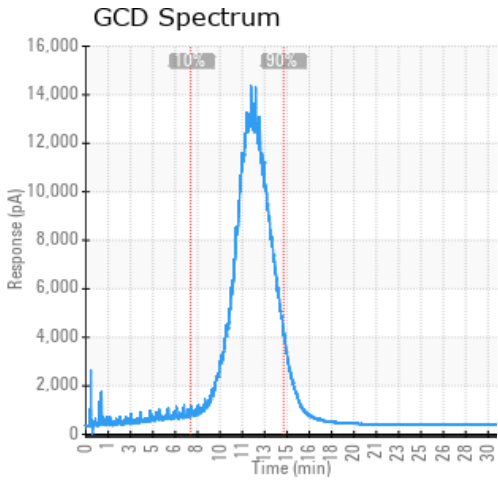
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/19/22	10/25/22	8.0y		356 / 180	20.4	29.9	0.50	0.051	692 / 367	806 / 430	905 / 485	5.37
05/17/22	05/24/22	7.5y		345 / 174	11.8	28.8	0.49	0.081	687 / 364	803 / 429	904 / 484	5.64
02/03/22	02/08/22	7.3y		309 / 154	14.2	28.9	0.38	0.186	679 / 360	804 / 429	903 / 484	6.46
06/15/21	06/18/21	6.8y		349 / 176	15.4	29.0	0.33	0.105	694 / 368	806 / 430	906 / 486	5.22
12/04/20	12/11/20	6.3y		345 / 174	11.3	29.3	0.39	0.162	692 / 367	805 / 430	903 / 484	5.28
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
10/19/22	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	29	0
05/17/22	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0
02/03/22	87	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	71	1
06/15/21	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
12/04/20	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0
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	
05/17/22	Flash point has recovered somewhat. Continue to vent the expansion tank to reduce low boilers. Resample at next interval to monitor. COC Flash Point is severely low.
02/03/22	Flash point redone. Although the parameters of the HTF are very constant during the last year the flash point has dropped and is still abnormally low. Levels of low weight hydrocarbons recommend to monitor the low boilers and continue to perform venting, that may help to recover the flash point. COC Flash Point is severely low.
06/15/21	Although the parameters of the HTF are very constant during the last year the flash point continues to be severely low. Levels of low weight hydrocarbons recommend to monitor the low boilers and do some venting, that may help to recover the flash point. COC Flash Point is severely low.
12/04/20	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.

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