

TPC 800 LNE

OVERIJSSEL

Customer: PTRHTF40011

ENKCO FOODGROUP BV WAAGWEG 5

HOLTEN, OVE NETHERLANDS

Attn: Maintenance Manager

Tel: E-Mail: System Information
System Volume: 2500 ltr

Bulk Operating Temp: 545F / 285C

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: WANSON

Sample Information

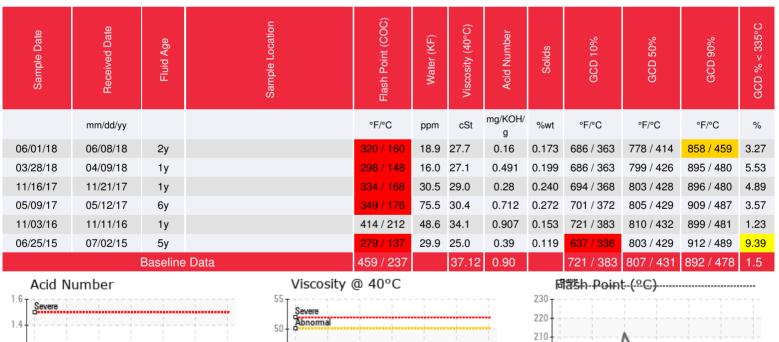
Lab No: 02221303 Analyst: Philip Riley Sample Date: 06/01/18 Received Date: 06/08/18 Completed: 06/12/18

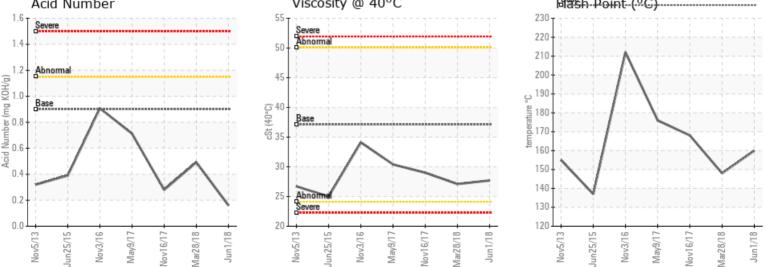
To discuss this report contact Philip Riley

at (440)124-4378171

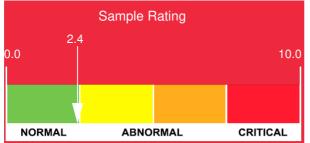
Recommendation: COC Flash Point very low indeed. GCD backs up by showing high presence of light end materials. Recommend an oil change but if not possible then recommend to vent off the system (safely) and see if the flash point can be raised. This may have been done as it has improved from last sample. I would re-sample following venting to check

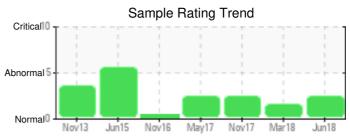
Comments: COC Flash Point is severely low. (GCD) 90% Distillation Point is abnormally low.





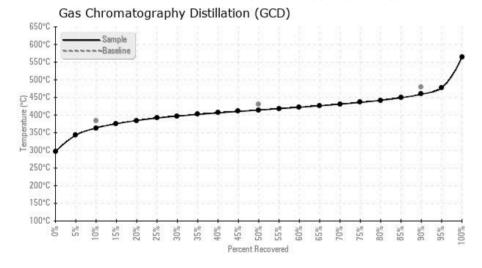


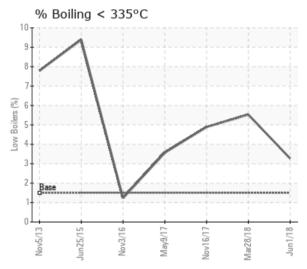




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
06/01/18	55	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	23	0
03/28/18	36	0	0	0	13	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	35	1
11/16/17	46	1	0	0	34	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	49	1
05/09/17	30	0	0	0	10	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	43	1
11/03/16	7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	25	0
06/25/15	5	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	18	0
Baseline Data			0	0						0			0	0					0				230	

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





	Historical Comments
03/28/18	Recommend Fluid change, flush and refill based on the flash point that has progressively reduced sample after sample. GCD backs up presence of a wide range of lower weight molecules COC Flash Point is severely low.
11/16/17	Recommend fluid change. Copper can act as oxidation catalyst and encourage degradation. Significant low boiling point molecules present affecting flash point that has deteriorated since previous sampleCopper ppm levels are abnormal. COC Flash Point is severely low.
05/09/17	Oil appears fit for further service, suggest sample at next scheduled maintenance interval. Copper ppm levels are noted. COC Flash Point is severely low.
11/03/16	The oil is in good condition and fit for further service. Suggest sample at next scheduled maintenance interval.
06/25/15	Low boilers identified by GCD have shown a lower than expected flash point - in cases such as these where 2 flash points are identified the lower flash point is always reported. This oil appears fit for further service at this time and if the small amount of low boilers can be removed this would assist in the quality of the oil in future. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. (GCD) % < 335°C is marginally high.

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.