



WANSON COMBI 1900

Customer: PTRHTF40035

GEBR HAKVOORT BV ZUIDOOSTRAK 2 FLEVOLAND

URK, FLE NETHERLANDS Attn: Maintenance Manager

Tel:

E-Mail: w.snyenr@klt.nl

System Information
System Volume: 1600 ltr

Bulk Operating Temp: 300F / 149C

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: WANSON

Sample Information

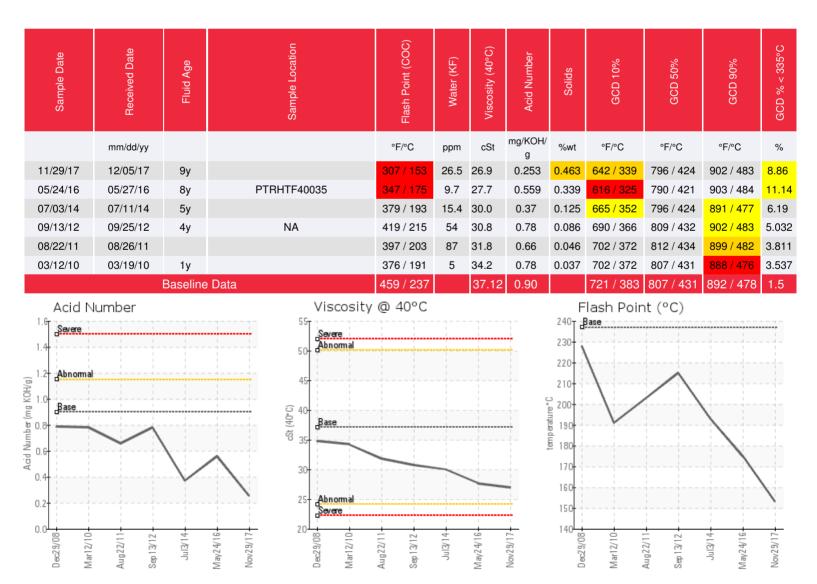
Lab No: 02185906 Analyst: Philip Riley Sample Date: 11/29/17 Received Date: 12/05/17 Completed: 12/11/17

To discuss this report contact Philip Riley

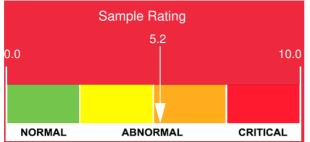
at (440)124-4378171

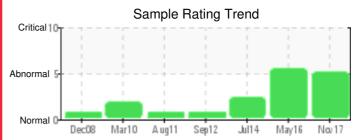
Recommendation: Flash Point off spec very low, insoluble high showing fluid degradation. Recommend fluid change.

Comments: Pentane Insolubles levels are abnormally high. COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.



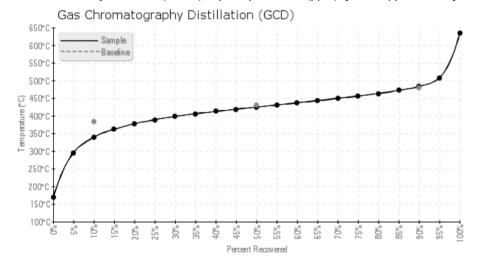


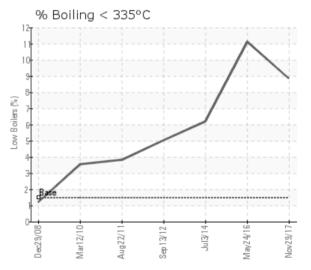




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
11/29/17	3	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	18	0
05/24/16	8	0	0	0	1	0	0	2	0	0	3	1	0	0	0	0	0	0	0	0	2	0	25	1
07/03/14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
09/13/12	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
08/22/11	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	7	2
03/12/10	4	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
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							
05/24/16	There are some low boilers present. Remove the low boilers if possible. Oil appears to be fit for further service. Suggest sample at next scheduled maintenance interval. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. (GCD) % < 335°C is marginally high.						
07/03/14	Oil appears to be in good condition. Sample at next scheduled maintenance interval. (GCD) 10% Distillation Point is marginally low. (GCD) 90% Distillation Point is marginally low.						
09/13/12	Oil is fit for further service						
08/22/11							
03/12/10							

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