

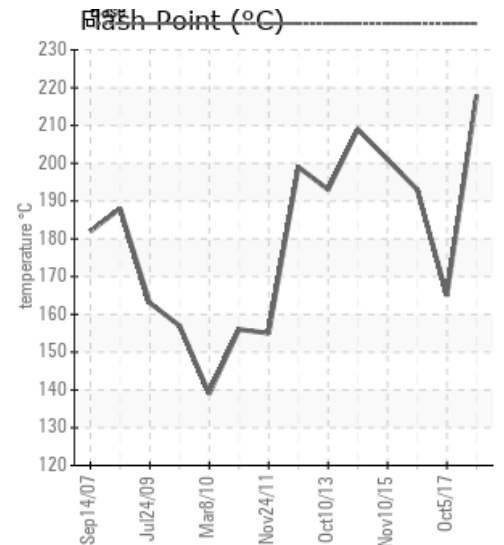
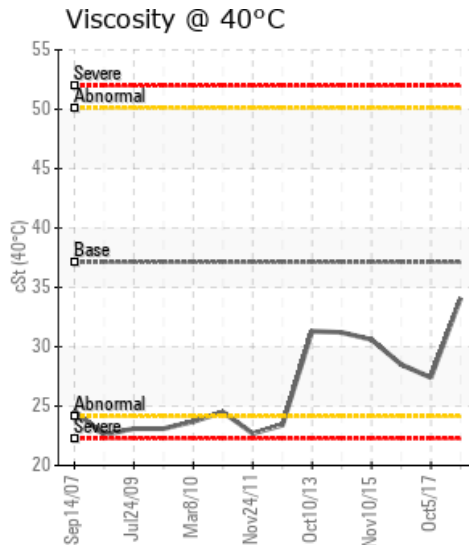
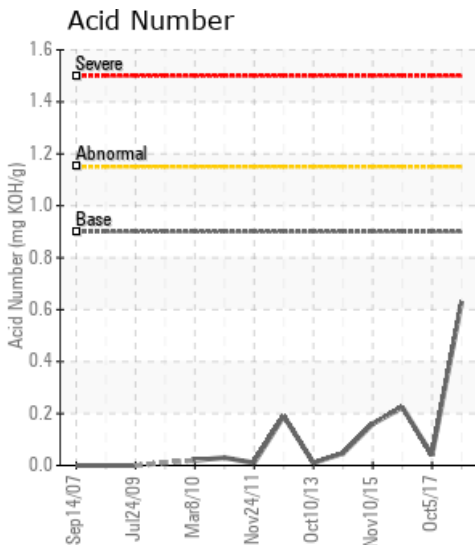
WANSON TPL 400B-300LNE

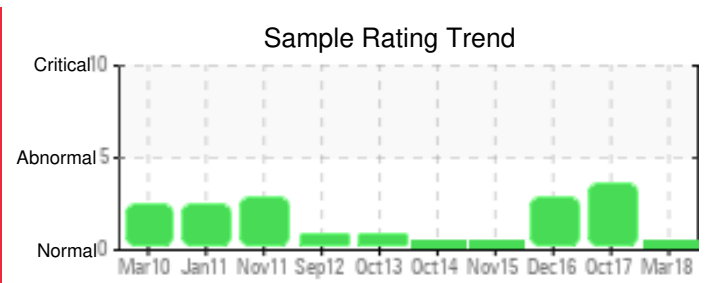
Customer: PTRHTF40027	System Information	Sample Information
BAKX FOODS DE RUN 4463 NORTH BRABANT VELDHOVEN, NOR 5503 LS NETHERLANDS Attn: Maintenance Manager Tel:	System Volume: 1800 ltr Bulk Operating Temp: 255F / 124C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02204244 Analyst: Philip Riley Sample Date: 03/08/18 Received Date: 03/15/18 Completed: 03/20/18 To discuss this report contact Philip Riley at (440)124-4378171

Recommendation: All parameters well within expected limits and controls. Fluid fit for further use and normal sample period

Comments:

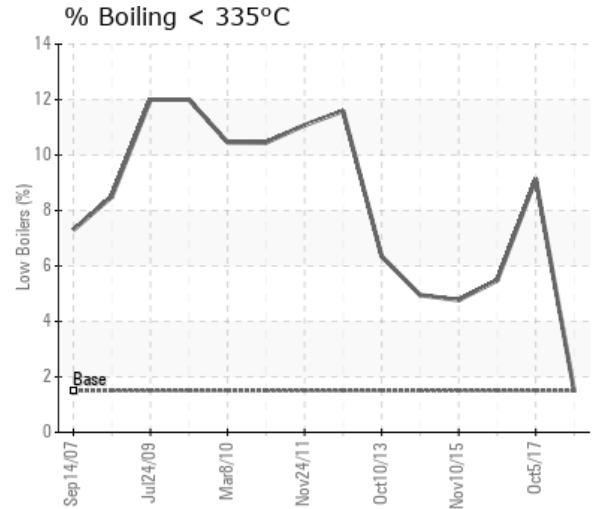
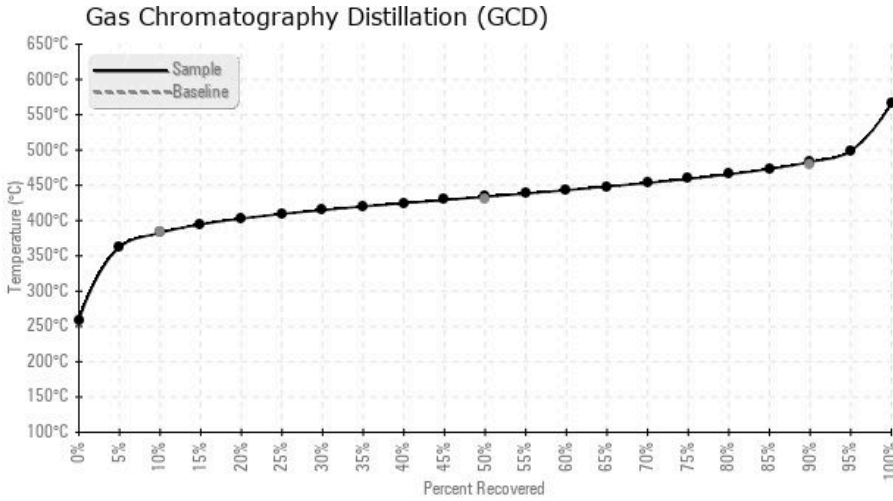
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/08/18	03/15/18	1w		424 / 218	20.8	34.1	0.63	0.107	721 / 383	813 / 434	902 / 483	1.47
10/05/17	10/12/17	3w		329 / 165	11.2	27.4	0.040	0.282	641 / 338	791 / 422	905 / 485	9.14
12/09/16	12/16/16	3w		379 / 193	2.2	28.5	0.224	0.119	682 / 361	805 / 429	913 / 489	5.48
11/10/15	11/23/15	2w	PTRHTF40027	394 / 201	10.0	30.6	0.16	0.101	686 / 363	798 / 426	906 / 486	4.77
10/24/14	10/30/14	1w		408 / 209	12.4	31.2	0.047	0.139	691 / 366	803 / 429	917 / 492	4.95
10/10/13	11/27/13	1w		379 / 193	20.1	31.3	0.01	0.239	667 / 353	784 / 418	887 / 475	6.35
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
03/08/18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	12	0
10/05/17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/09/16	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
11/10/15	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
10/24/14	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0
10/10/13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	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	
10/05/17	Recommend fluid change and system check. Flash Point very low, backed up with light molecules evident in GC trace COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.
12/09/16	Oil appears to be in good condition and fit for further service. Suggest sample at next scheduled maintenance interval. COC Flash Point is marginally low.
11/10/15	Oil appears to be in good condition and fit for further service. Suggest sample at next scheduled maintenance interval.
10/24/14	Oil is fit for further service. Sample at next scheduled maintenance interval.
10/10/13	Oil appears fit for further service. Sample at next scheduled routine maintenance interval. COC Flash Point is marginally low.

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