

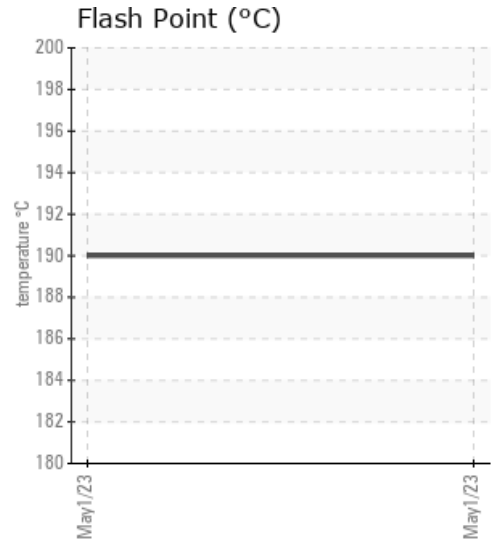
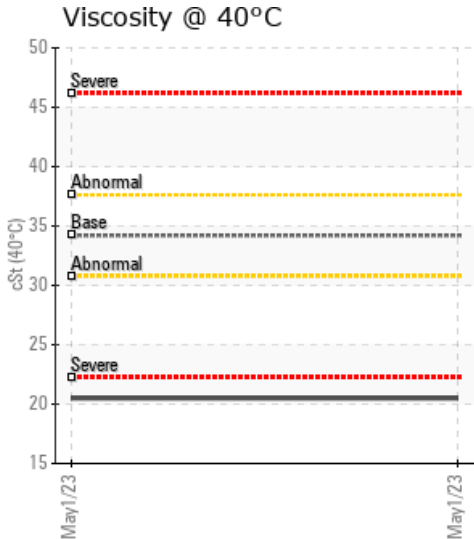
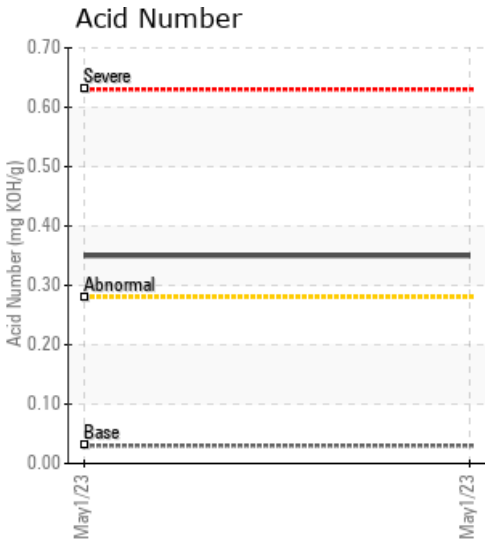
PLANT 5 PRIME

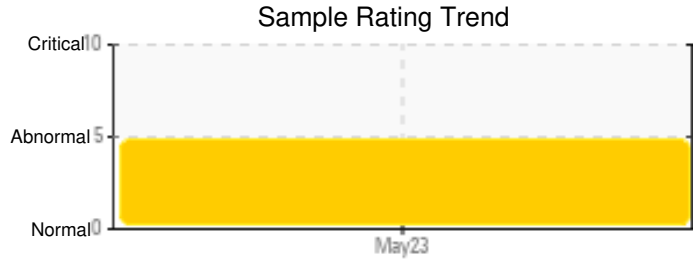
Customer: PTRHTF10195	System Information	Sample Information
Baker Manufacturing, LLC. 1349 Rockland Rd. Lake Bluff, IL 60044 US Attn: Jeremy Huntington Tel: (847)514-9253 E-Mail: jhuntington@peterbaker.com	System Volume: 250 gal Bulk Operating Temp: 330F / 166C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HYWAY BY GENCOR	Lab No: 02556041 Analyst: Yvette Trzcinski Sample Date: 05/01/23 Received Date: 05/08/23 Completed: 05/15/23 Yvette Trzcinski yvette.trzcinski@HFSinclair.com

Recommendation: smaller system - having issues with deposit in filters. the high acid number and solid deposit plugging up the filters and issues keeping system hot recommend Draining, flushing system and recharge with Petro-Therm

Comments: Calcium ppm levels are severely high. Visc @ 40°C is severely low. Acid Number (AN) is abnormally high. COC Flash Point is marginally low. (GCD) 90% Distillation Point is marginally low.

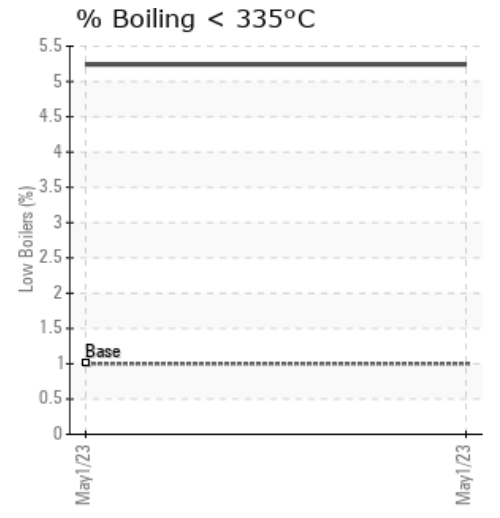
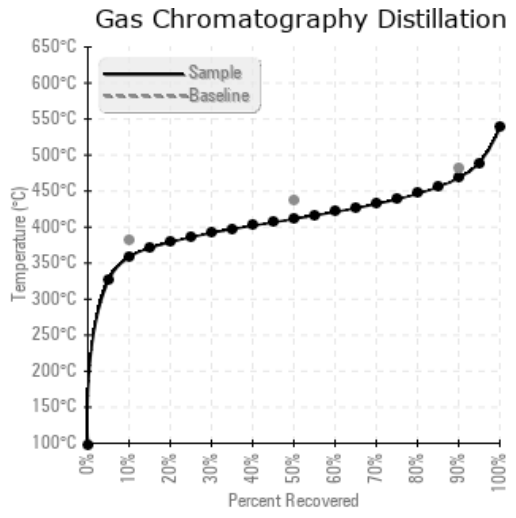
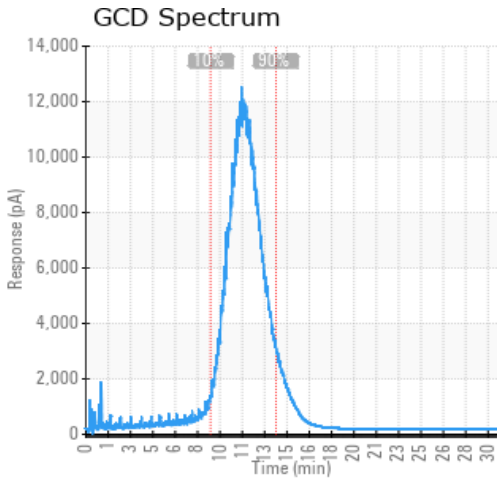
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/01/23	05/08/23	24.0m		374 / 190	72.5	20.5	0.35	0.123	678 / 359	772 / 411	875 / 468	5.24
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
05/01/23	12	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	92	0	9	1
Baseline Data			0	0						0			0	0					0				0	

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



Historical Comments

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.