

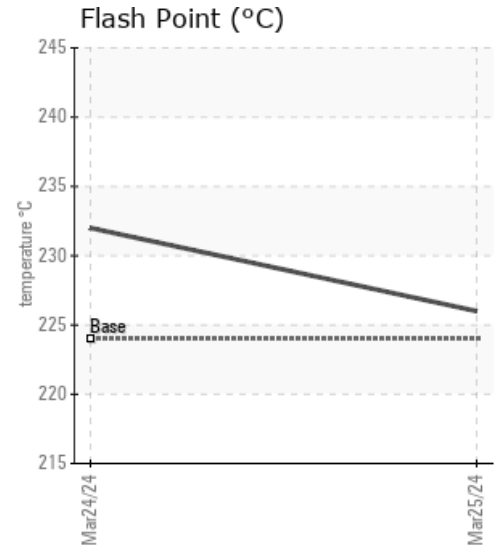
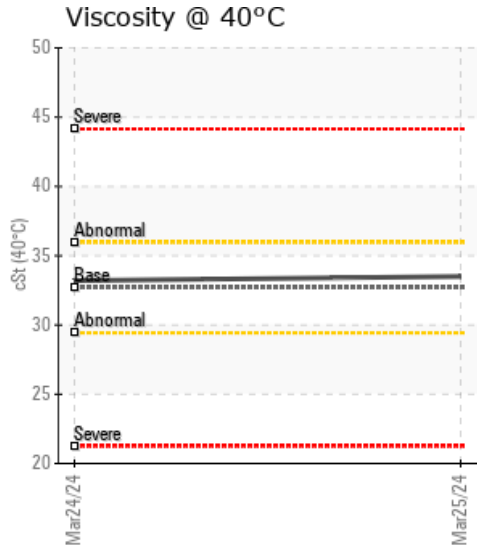
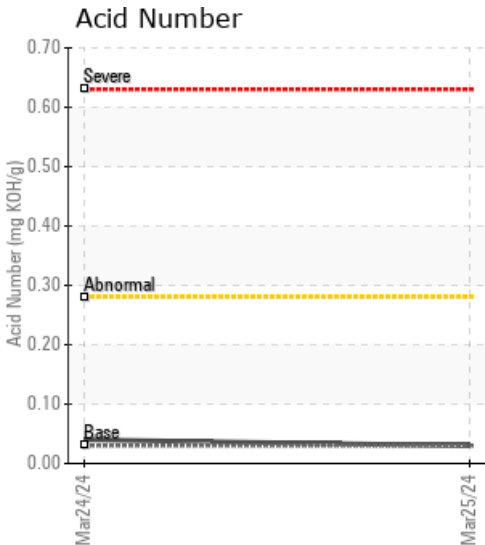
## SILANE 3.0 mole sieve preheater

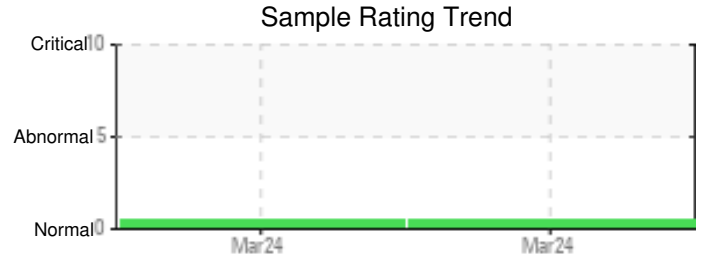
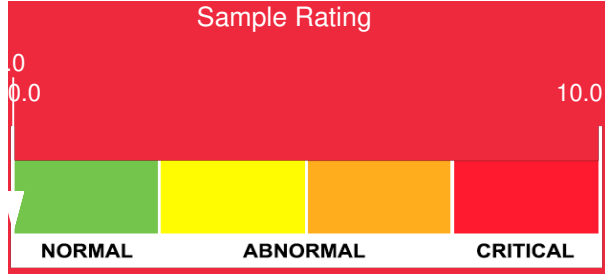
Customer: PTRHTF10093	System Information	Sample Information
REC GROUP 3322 ROAD N N.E. MOSES LAKE, WA 98837 US Attn: Chris Fuller Tel: (509)793-0723 E-Mail: chris.fuller@recsilicon.com	System Volume: 700 gal Bulk Operating Temp: 300F / 149C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: COEN	Lab No: 02626264 Analyst: Ron LeBlanc Sample Date: 03/25/24 Received Date: 04/02/24 Completed: 04/11/24 Ron LeBlanc Ronald.LeBlancSr@HFSinclair.com

Recommendation: 3.0 looks normal for specifications. More discussion needs to be done.

Comments:

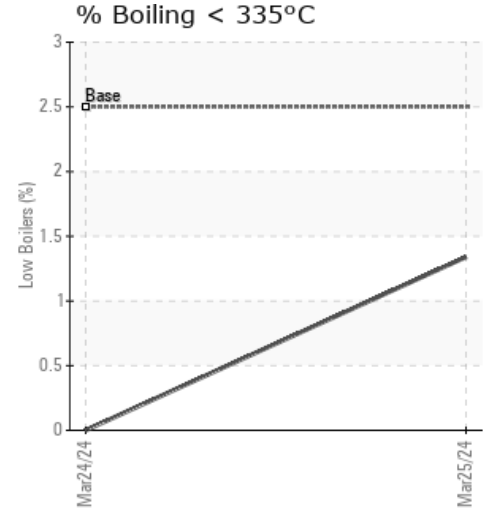
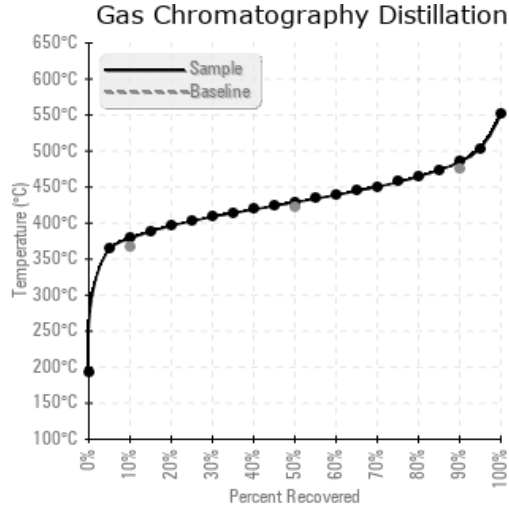
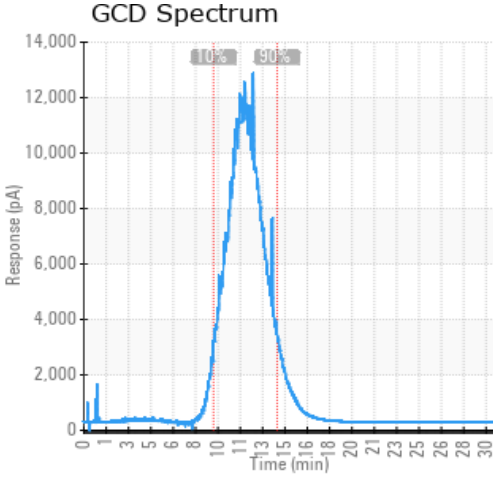
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/25/24	04/02/24	180.0m		439 / 226	0	33.5	0.03	0.047	713 / 378	804 / 429	904 / 485	1.34
03/24/24	04/02/24	180.0m		450 / 232	0	33.2	0.04	0.031	717 / 380	804 / 429	904 / 485	0.00
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
03/25/24	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	269	2
03/24/24	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	266	1
Baseline Data			0	0						0		0	0					0					270	

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



### Historical Comments

03/24/24	The sample shows no abnormal results based on this sample. When 3.0 starts up to normal operating temp sample again in 3-4 weeks.

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