

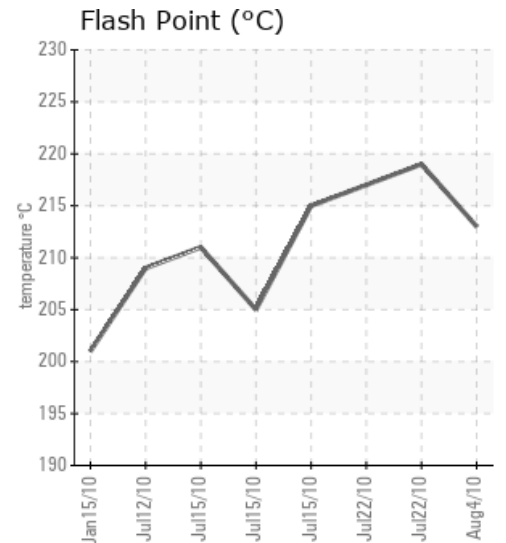
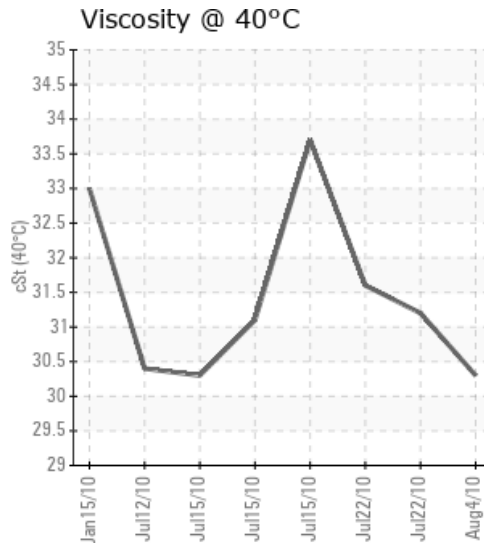
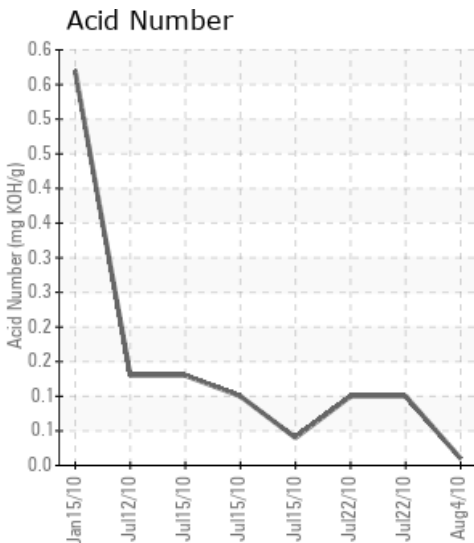
[Disto Oil Loop] SILANE 4.0 DISTILLATION

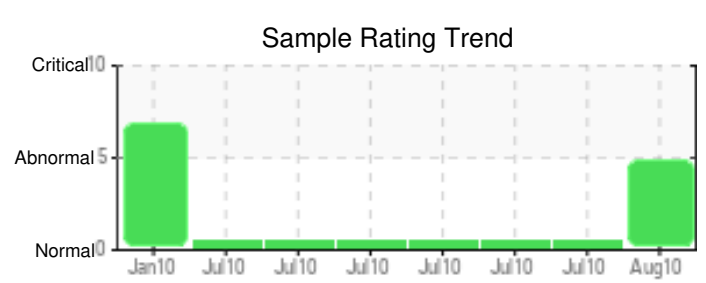
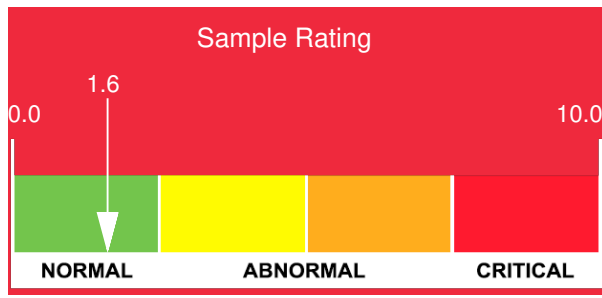
Customer: PTRHTF10093	System Information	Sample Information
REC GROUP 3322 ROAD N N.E. MOSES LAKE, WA 98837 USA Attn: Sam Bright Tel: (509)766-8902 E-Mail: sam.bright@recsilicon.com	System Volume: 50000 gal Bulk Operating Temp: 420F / 216C Heating Source: Blanket: Fluid: Make: COEN	Lab No: I-V26849 Analyst: Gaston Arseneault Sample Date: 08/04/10 Received Date: 08/10/10 Completed: 08/13/10 To discuss this report contact Gaston Arseneault at 973-986-6503

Recommendation: Follow up sample will help monitor

Comments: Simulated distillation 90% boiling point is slightly high. Chlorine Results: 100 ppm.

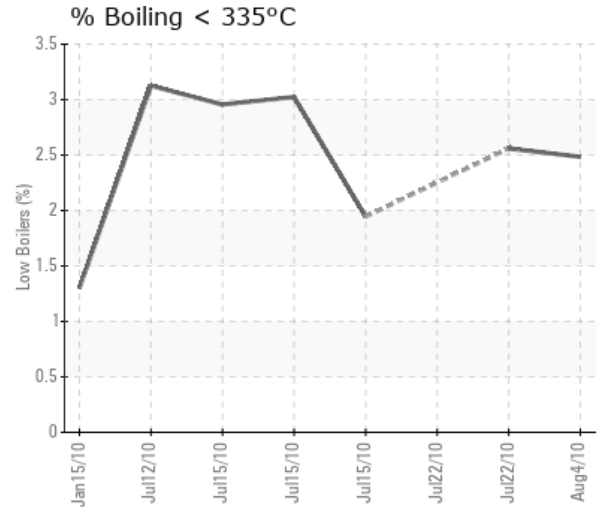
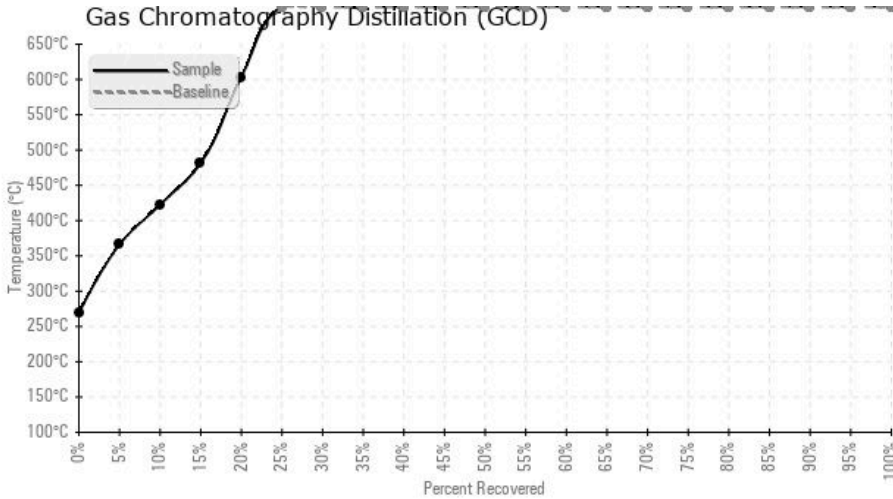
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
08/04/10	08/10/10	3m	VAPORIZER	394 / 201	69	31.5	0.01	0.036	691 / 366	791 / 422	897 / 481	2.514
08/04/10	08/10/10	3m	BOTTOM OF TANK	415 / 213	64	30.3	0.01	0.054	691 / 366	792 / 422	898 / 481	2.484
07/22/10	07/23/10		VAPORIZER OUTLET	426 / 219	175	31.2	0.1	0.026	691 / 366	793 / 423	896 / 480	2.56
07/22/10	07/23/10	3m	BOTTOM OF TANK	423 / 217	35	31.6	0.1	0.011				
07/15/10	07/16/10	3m	NEW OIL	419 / 215	123	33.7	0.04		688 / 364	784 / 418	878 / 470	1.945
07/15/10	07/16/10	3m	PUMP DISCHARGE	401 / 205	45	31.1	0.1	0.039	686 / 363	786 / 419	875 / 469	3.024
Baseline Data												





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
08/04/10	4	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	9	0
08/04/10	6	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	10	0
07/22/10	4	0	0	0	0	0	0	1	0	0	7	0	3	0	0	0	0	0	0	0	1	0	7	0
07/22/10	6	0	0	0	0	0	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7	0
07/15/10	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	221	3
07/15/10	6	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	9	0
Baseline Data																								

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



Historical Comments

08/04/10	Follow up sample will help monitor
07/22/10	The GCD instrument is down so full report to follow later. Silicon has risen slowly but chlorine is lower than the bottom of tank sample
07/22/10	This bottom of tank sample does not look as bad as the previous bottom of tank sample from 7/15. There was not enough sample to run the GCD.
07/15/10	The oil looks like new Calflo AF.
07/15/10	We will ask for chlorine testing on the tank bottom sample. Tank bottom appears to have more solids (oil insoluble material), more water but not more acidic