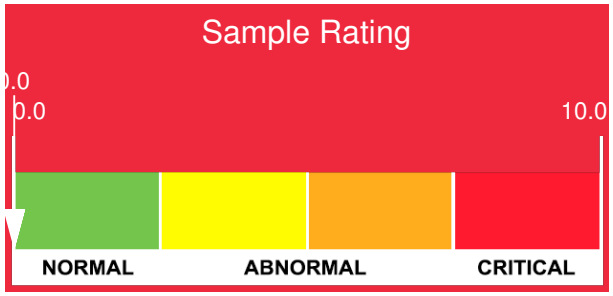
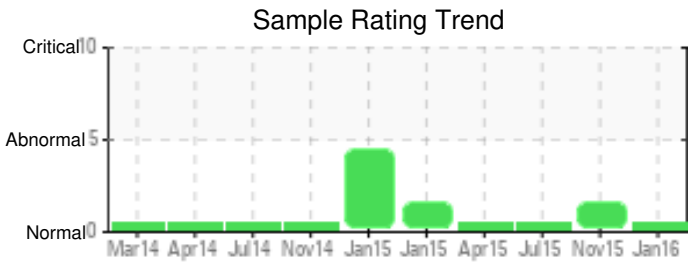




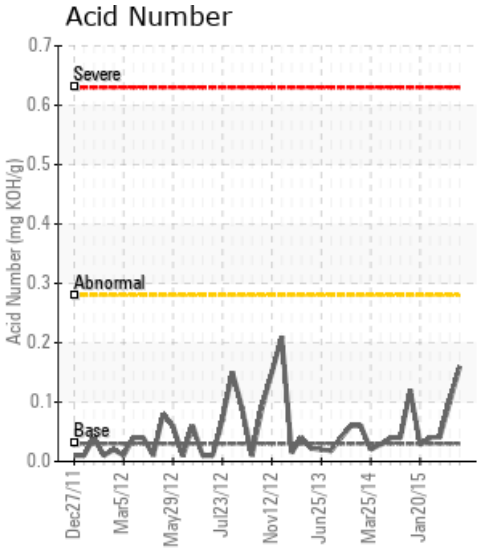
[Disto Oil Loop] SILANE 4.0 DISTILLATION

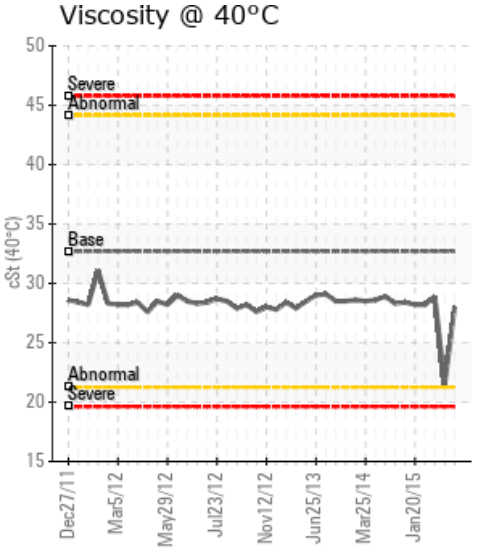
Customer: PTRHTF10093	System Information	Sample Information
REC GROUP 3322 ROAD N N.E. MOSES LAKE, WA 98837 USA Attn: Sam Bright Tel: (509)766-8902 E-Mail: sam.bright@recsilicon.com	System Volume: 50000 gal Bulk Operating Temp: 420F / 216C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: COEN	Lab No: 02048828 Analyst: Ron LeBlanc Sample Date: 01/18/16 Received Date: 01/25/16 Completed: 01/29/16 To discuss this report contact Ron LeBlanc at (541)967-6499

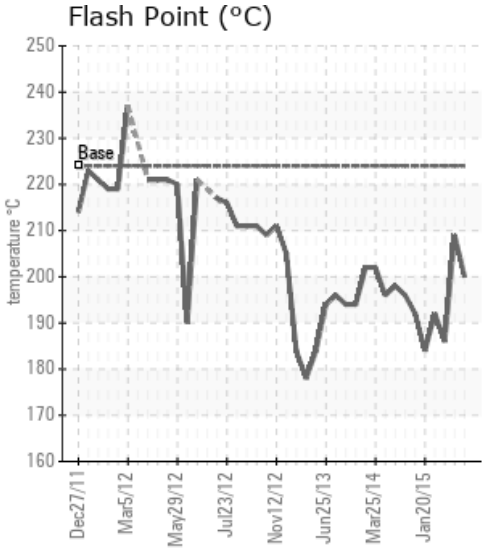
Recommendation: Sample appears normal. Si has elevated compared to last sample but is still low compared to previous samples. Resample at normal interval.

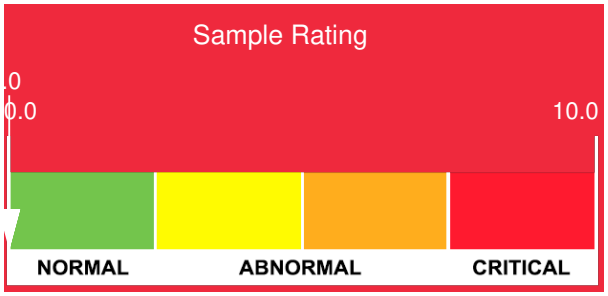
Comments:

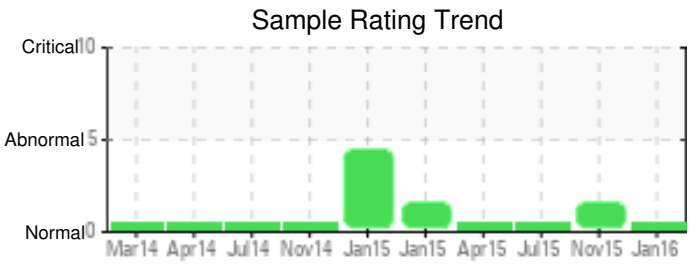
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/18/16	01/25/16	49m	PRV VENT NEAR TCS VP	392 / 200	30.2	28.0	0.16	0.136	684 / 362	796 / 425	898 / 481	4.13
11/21/15	11/27/15	0m		408 / 209	195.8	21.5	0.10	0.097	671 / 355	789 / 420	891 / 477	5.41
07/22/15	07/29/15	41m	PRV VENT NEAR TCS VP	367 / 186	0.00	28.9	0.041	0.101	682 / 361	798 / 426	895 / 479	4.55
04/13/15	04/21/15	41m	PRV VENT NEAR TCS VP	378 / 192	14.0	28.2	0.04	0.055	672 / 356	783 / 417	869 / 465	4.95
01/20/15	01/26/15	37m	PRVVENT NEAR TCSVAP	363 / 184	11.4	28.2	0.029	0.042	687 / 364	775 / 413	868 / 465	0.52
01/06/15	01/07/15	37m	PRV VENT NEAR TCS VA	378 / 192	7.3	28.4	0.12	0.356	654 / 346	773 / 412	963 / 517	6.92
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





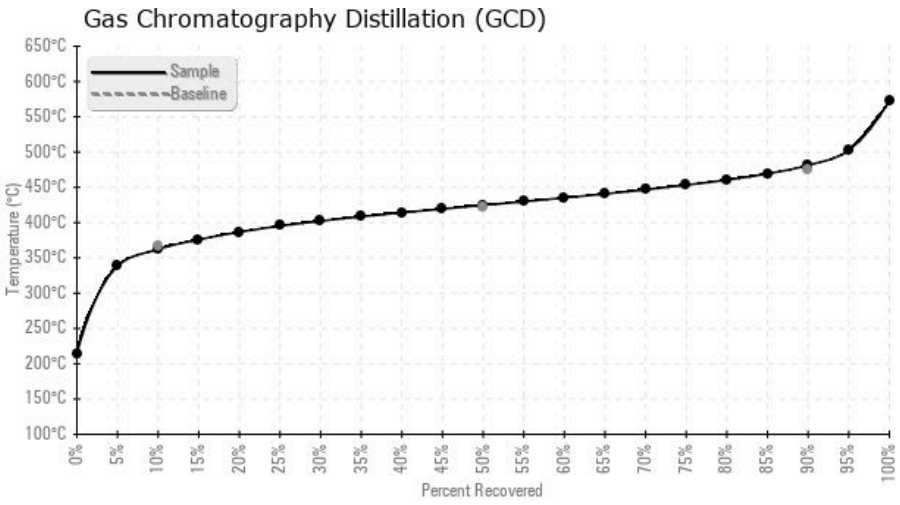


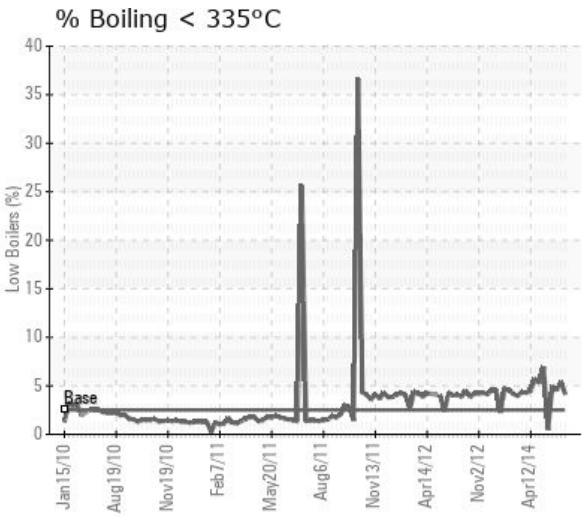




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
01/18/16	66	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	1	0	0	0	0	0	36	0
11/21/15	29	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	21	0
07/22/15	58	0	0	0	0	0	0	0	0	0	16	1	0	0	0	0	0	0	1	0	0	0	105	0
04/13/15	35	0	0	0	0	0	0	1	0	0	10	1	0	0	0	0	0	0	0	0	1	0	100	0
01/20/15	34	0	0	0	0	0	0	0	0	0	10	1	0	0	0	0	0	0	0	0	0	0	116	0
01/06/15	109	0	0	0	0	0	1	1	0	0	35	0	0	0	0	0	1	0	0	0	1	0	131	0
Baseline Data			0	0						0			0	0					0				270	

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





Historical Comments

11/21/15	*** NOTE: water result retested. Now normal ***Viscosity has decreased since last sample. Resample at normal interval.
07/22/15	Si & Na have increased since last sample. COC Flash Point is marginally low.
04/13/15	Sample appears normal. Sample again in 3 months. COC Flash Point is marginally low.
01/20/15	The overall condition of the oil has improved since the previous sample. The flash point has dropped slightly and is marginally low. The (GCD) 90% distillation point has improved slightly. The Si has decreased significantly. Sample in 1 month suggested. COC Flash Point is marginally low. (GCD) 90% Distillation Point is marginally low.
01/06/15	Si increased nearly 4 times since last sample (11/13/2014). A process leak is indicated. The (GCD) 90% Distillation Point is severely high. COC Flash Point is marginally low. Resample immediately to monitor oil condition. Silicon ppm levels are abnormally high. (GCD) 90% Distillation Point is severely high. COC Flash Point is marginally low.