

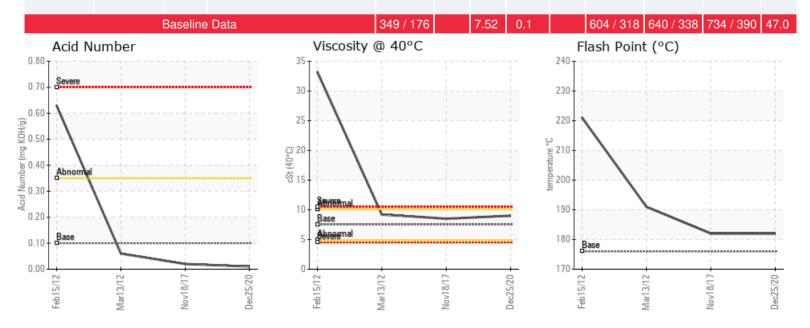
VAPORIZER #2

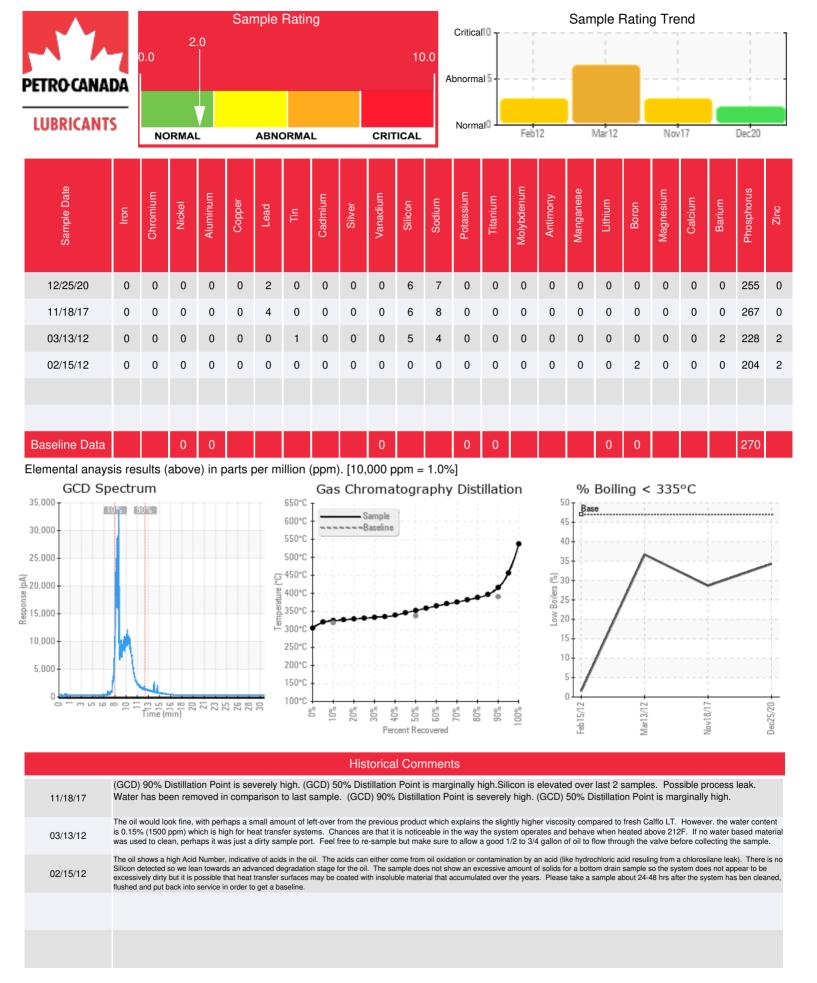
Customer: PTRHTF10092	System Information	Sample Information			
REC GROUP	System Volume: 120 gal	Lab No: 02397478			
119410 RICK JONES WAY	Bulk Operating Temp: 400F / 204C	Analyst: Ron LeBlanc			
BUTTE (SILVER BOW), MT 59750 USA	Heating Source:	Sample Date: 12/25/20			
Attn: Bill Telling	Blanket:	Received Date: 01/14/21			
Tel: (406)496-9929	Fluid: PETRO CANADA CALFLO LT	Completed: 01/20/21			
E-Mail: bill.telling@recsilicon.com	Make: WELLMAN	Ron LeBlanc			
-		Bonald,LeBlancSr@petrocanadalsp.com			

Recommendation: (GCD) 90% indicates thermal degradation. (GCD) 50% Low boilers are slightly high. Remove low boilers via the expansion tank. High boilers can lead to deposits fouling heat exchanger surfaces. Sample again in 3 months.

Comments: (GCD) 90% Distillation Point is severely high.

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	%
12/25/20	01/14/21	8y	SST2	360 / 182	0.00	9.0	0.01	0.106	614 / 324	666 / 352	778 / 415	34.28
11/18/17	12/04/17	Оy		360 / 182	2.2	8.5	0.020	0.028	614 / 324	682 / 361	848 / 454	28.64
03/13/12	03/19/12		BOTTOM DRAIN	376 / 191	1507	9.2	0.06	0.006	612/322	666 / 352	778 / 414	36.68
02/15/12	02/22/12		BOTTOM DRAIN	430 / 221	10	33.2	0.63	0.055	693 / 367	785 / 418	888 / 475	1.509





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