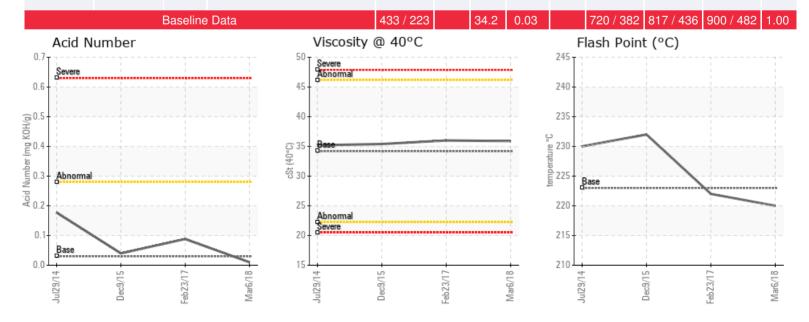


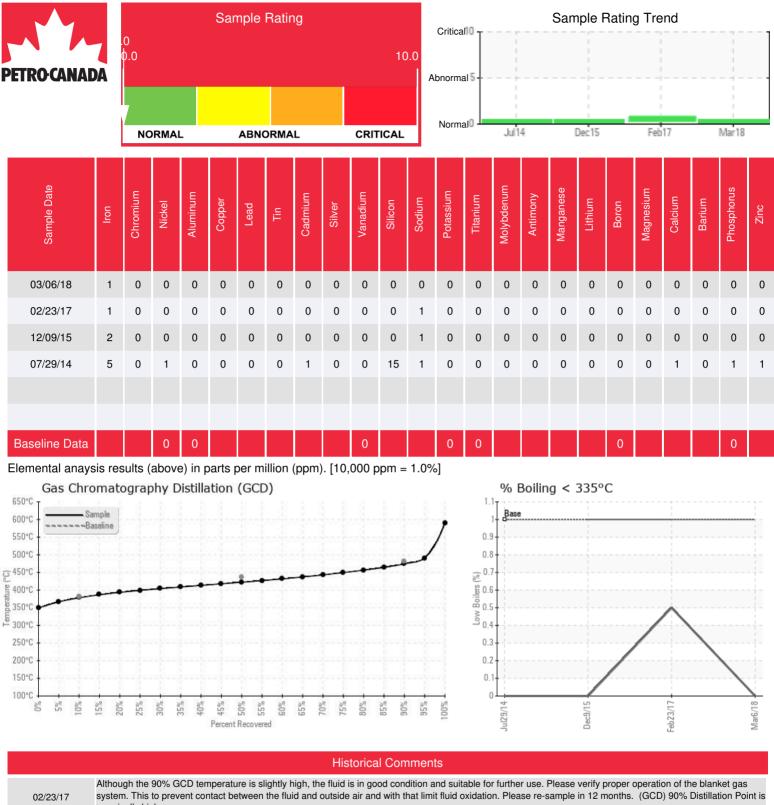
Customer: PTRHTF20046	System Information	Sample Information
QUADRA CHEMICALS	System Volume: 0 gal	Lab No: 02203576
12925 146TH STREET	Bulk Operating Temp: Not Specified	Analyst: Peter Harteveld
EDMONTON, AB T5L 2H6 CANADA	Heating Source:	Sample Date: 03/06/18
Attn: Ada Aponte	Blanket:	Received Date: 03/13/18
Tel:	Fluid: PETRO CANADA PETRO-THERM	Completed: 03/17/18
E-Mail: Ada_Aponte@quadra.ca	Make:	To discuss this report contact Peter
		Harteveld at (780)967-4234

Recommendation: The fluid is in excellent condition and suitable for further use. Please re-sample in 12 months. List system volume and operating temperature at that time.

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	%
03/06/18	03/13/18	5y		428 / 220	7.5	35.9	0.01	0.029	713 / 378	792 / 422	886 / 474	0.00
02/23/17	03/03/17	0y		432 / 222	11.0	36.0	0.088	0.077	715 / 379	804 / 429	925 / 496	0.50
12/09/15	12/14/15	1y		450 / 232	40.8	35.4	0.04	0.055	733 / 390	807 / 431	903 / 484	0.00
07/29/14	08/06/14	1y	15-12-50-21W5	446 / 230	38.0	35.2	0.177	0.068	736 / 391	811 / 433	916 / 491	0.00





02/23/17	system. This to prevent contact between the fluid and outside air and with that limit fluid oxidation. Please re-sample in 12 months. (GCD) 90% Distillation Point is marginally high.
12/09/15	The fluid is in excellent condition. Please re-sample in 12 months.
07/29/14	The fluid is in good condition. The 90% GCD temperature and TAN show a normal rate of fluid oxidation. Please re-sample in 6 months.

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