

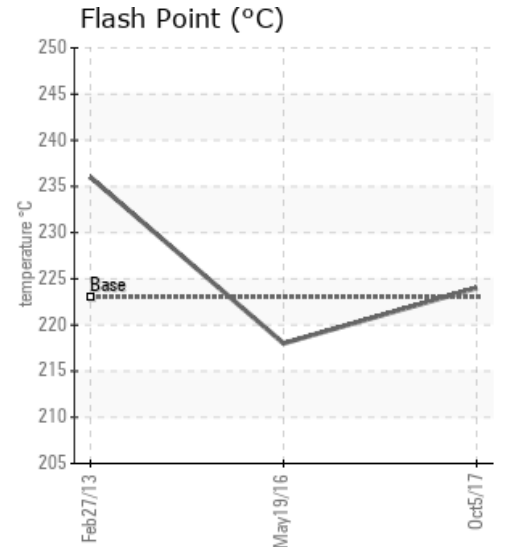
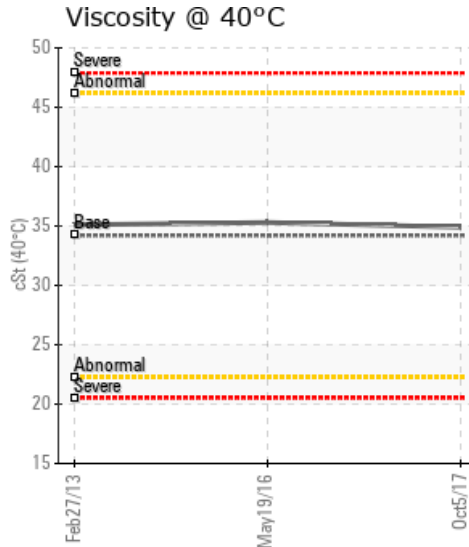
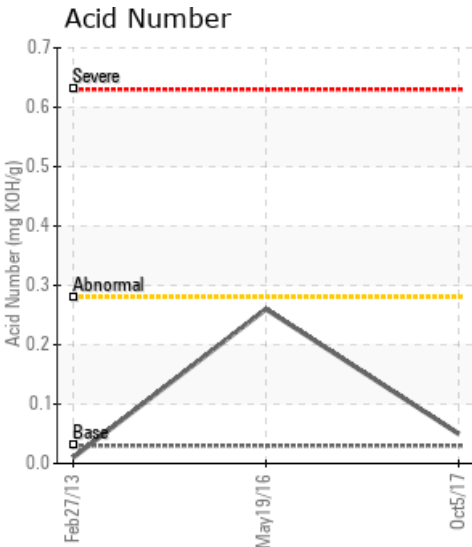
EMULSIONS HEATER

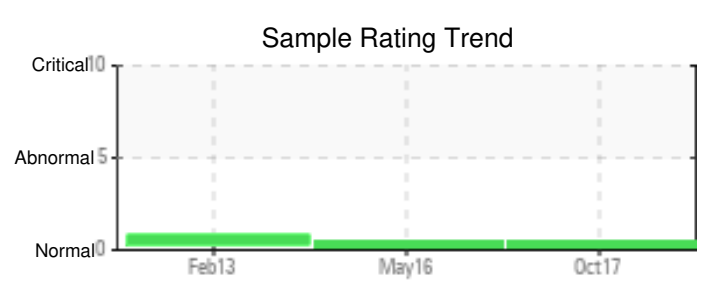
Customer: PTRHTF20056	System Information	Sample Information
COLASPHALT 26222 TOWNSHIP ROAD 530A ACHESON, AB T7X 5A7 Canada Attn: Luis Salinas Tel: (780)699-2447 E-Mail: luis.salinas@colasphalt.ca	System Volume: 3000 ltr Bulk Operating Temp: 320F / 160C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: CEI	Lab No: 02181916 Analyst: Gordon Susinski Sample Date: 10/05/17 Received Date: 11/14/17 Completed: 11/17/17 To discuss this report contact Gordon Susinski at (587)582-4118

Recommendation: Results are normal.

Comments:

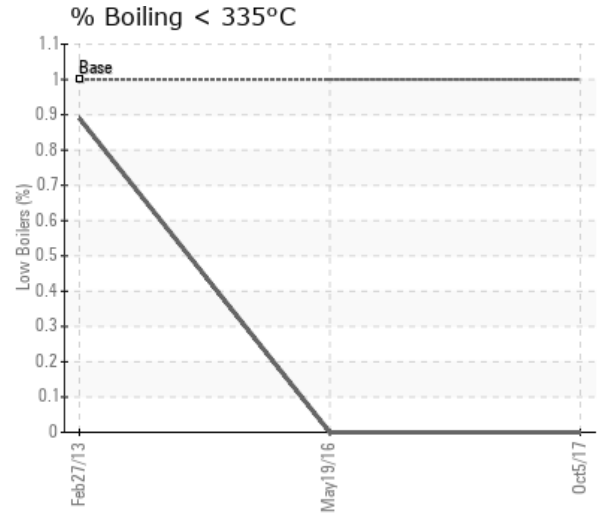
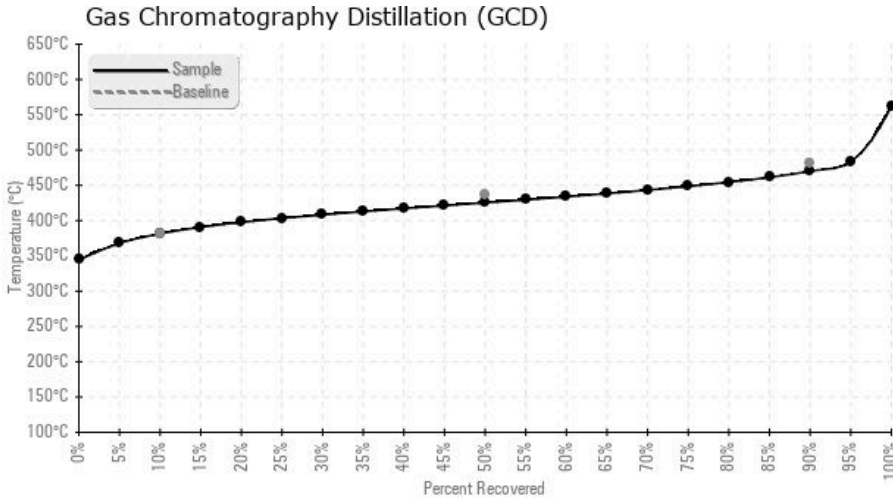
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/05/17	11/14/17	11m		435 / 224	33.7	34.9	0.05	0.183	719 / 381	798 / 425	878 / 470	0.00
05/19/16	07/28/16	3m	AFTER STRAINER	424 / 218	0.5	35.3	0.26	0.050	721 / 383	805 / 429	914 / 490	0.00
02/27/13	03/20/13	8m	VALVE	457 / 236	16.8	35.1	0.01	0.117	716 / 380	809 / 432	913 / 489	0.89
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
10/05/17	28	0	0	0	0	0	1	7	0	0	0	1	0	0	0	0	1	0	0	0	7	0	0	0
05/19/16	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
02/27/13	1	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	0
Baseline Data			0	0						0			0	0					0			0		

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



Historical Comments

05/19/16	The fluid is in good condition and suitable for further use. Please re-sample in 12 months.
02/27/13	Despite the dark appearance, the oil fared well in all the tests, hence the excellent rating. Please re-sample in 9 months or so to monitor its condition. (GCD) 90% Distillation Point is marginally high.

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.