

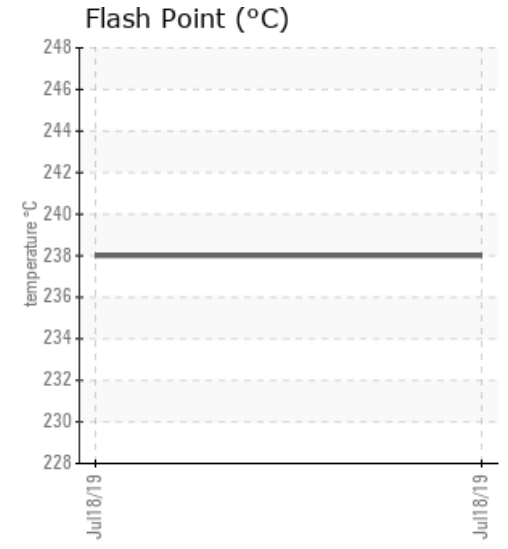
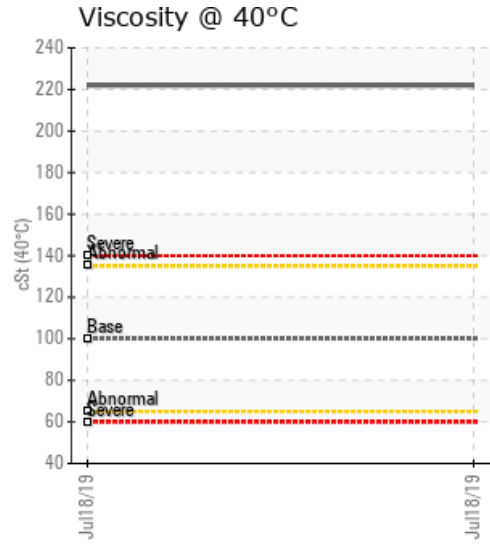
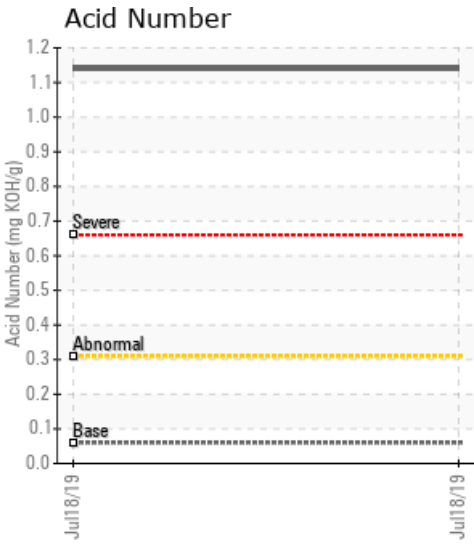
# HEAT TRANSFER

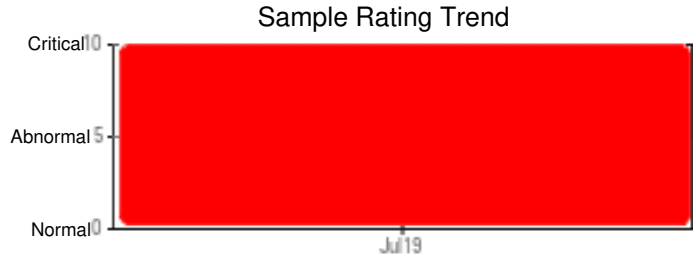
Customer: PTRHTF30136	System Information	Sample Information
McAsphalt Industries LTD 106 Orenda Road Brampton, ON L6W 3W6 Canada Attn: Stevan Kuzminac Tel: (905)459-4331 E-Mail: skuzminac@mcasphalt.com	System Volume: 1000 gal Bulk Operating Temp: 375F / 191C Heating Source: Blanket: Fluid: MOBIL TERESSTIC 100 Make: HEATTEC	Lab No: 02300823 Analyst: Behshad Sabah Sample Date: 07/18/19 Received Date: 08/02/19 Completed: 08/08/19

Recommendation: very high acid number and severely high viscosity are the result of using a non-heat transfer oil in this application. please change the oil into the correct heat transfer oil.

Comments: Iron ppm levels are severe. PQ levels are severe. Sodium ppm levels are severely high. Acid Number (AN) is severely high. Visc @ 40°C is severely high. (GCD) 90% Distillation Point is abnormal.

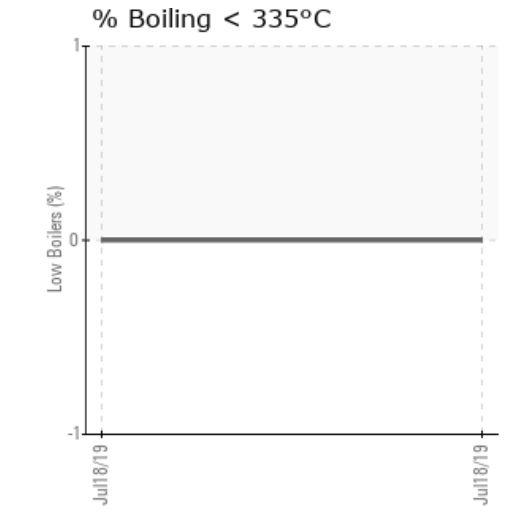
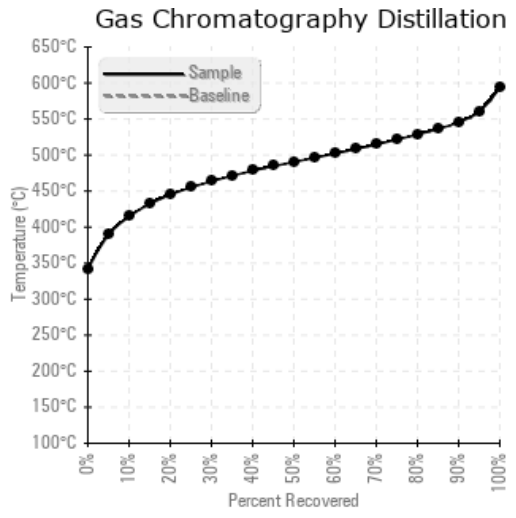
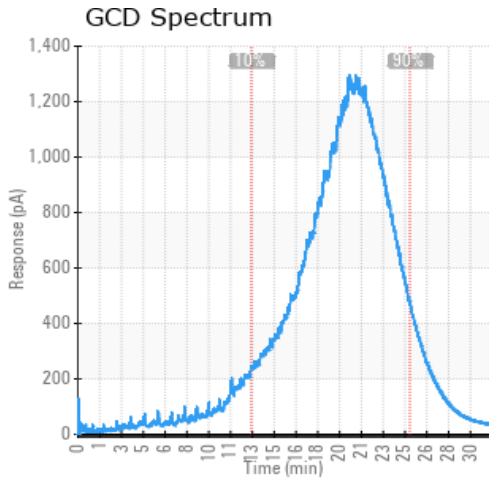
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/18/19	08/02/19	16y	PRESCREEN INLET	460 / 238	144.5	222	1.14	4.49	778 / 415	915 / 490	1014 / 546	0.00
Baseline Data				32 / 0		100.0	0.06					





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
07/18/19	515	0	0	0	2	6	2	0	0	2	1	281	2	0	0	0	4	0	0	0	4	0	24	6
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


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