

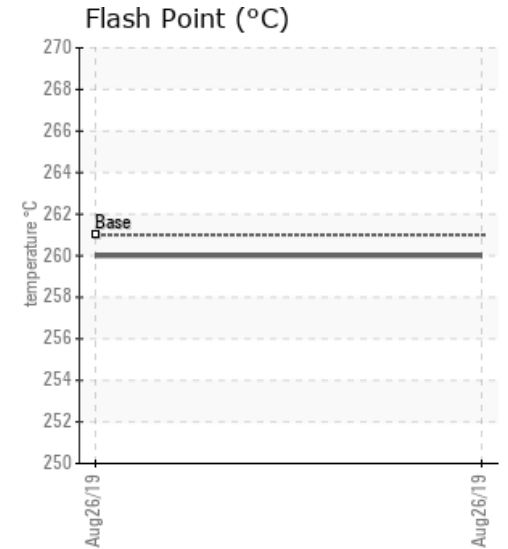
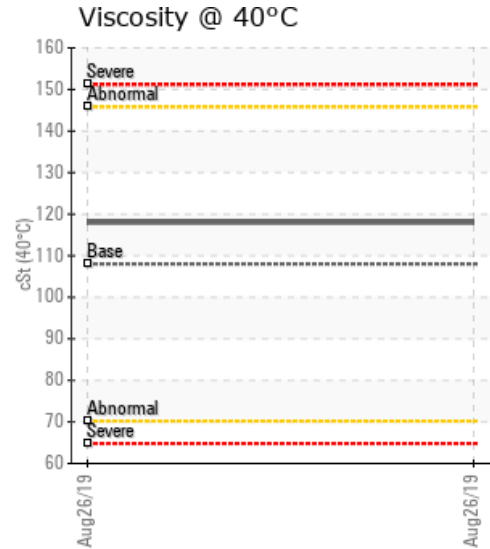
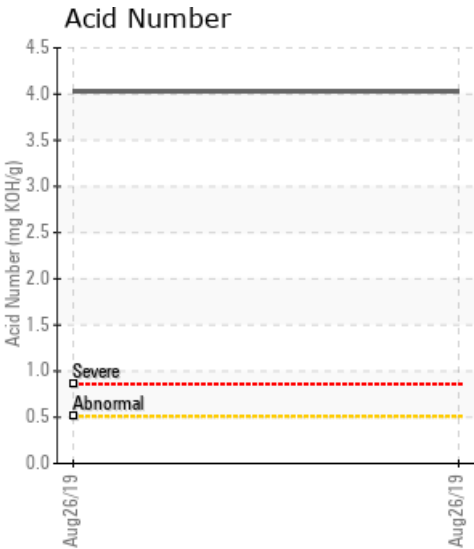
# PU44

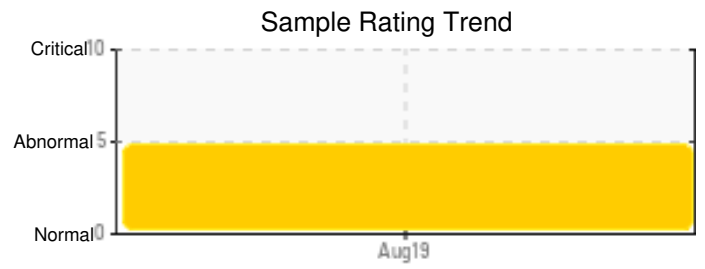
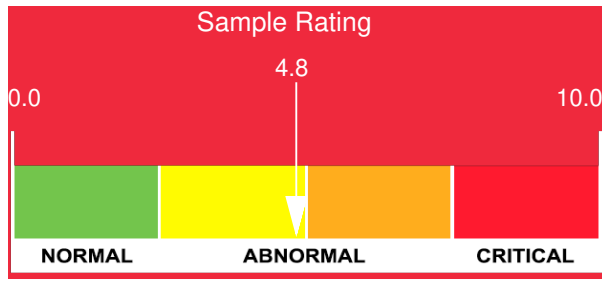
Customer: PTRHTF30141	System Information	Sample Information
McAsphalt Industries Ltd 70 Couchie Industrial Rd North Bay, ON P1B 8G5 Canada Attn: Roman Andrie Tel: E-Mail:	System Volume: 0 gal Bulk Operating Temp: 235F / 113C Heating Source: Blanket: Fluid: ESSO ESSOTHERM N100 Make:	Lab No: 02306535 Analyst: Behshad Sabah Sample Date: 08/26/19 Received Date: 09/05/19 Completed: 09/06/19

Recommendation: very high acid number and pentane insoluble indicates the oil oxidation and degradation. the iron ppm is getting high. there is a high chance of corrosion in the system. please monitor the oil very closely and have a plan to change the oil or do the sweetening.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high.

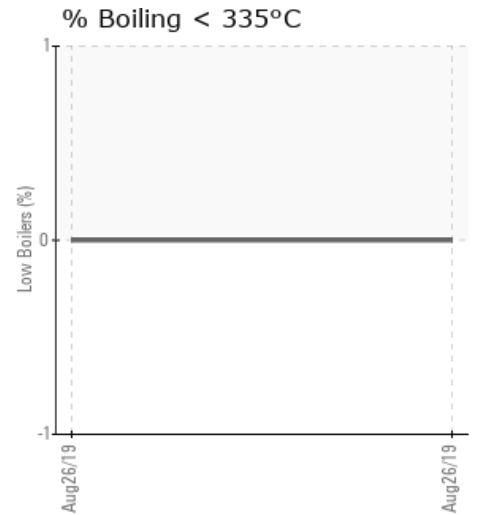
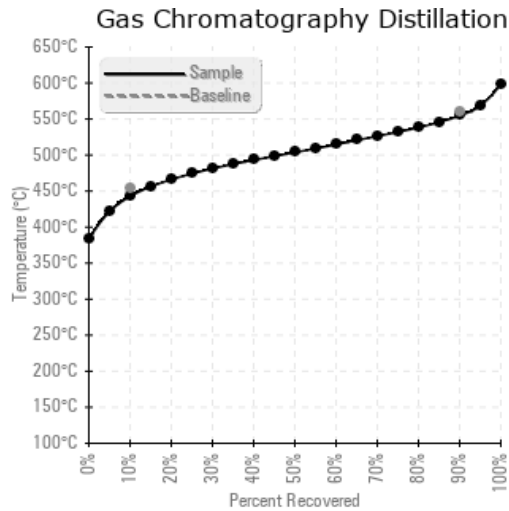
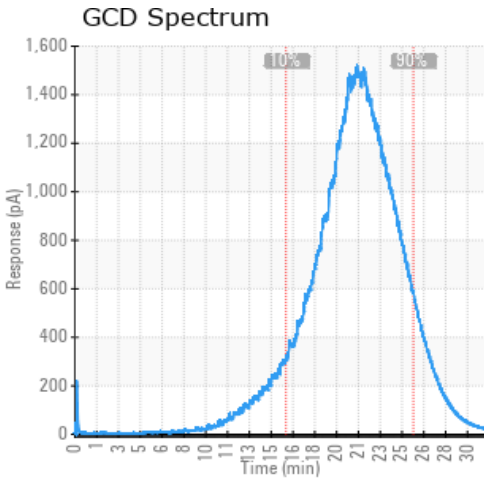
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
08/26/19	09/05/19	10y	DISCHARGE CIRC. PUMP	500 / 260	100.2	118	4.03	1.55	829 / 443	939 / 504	1030 / 555	0.00
Baseline Data				502 / 261		108			847 / 453		1040 / 560	





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
08/26/19	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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


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