

NORTH

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 McAsphalt Ind.
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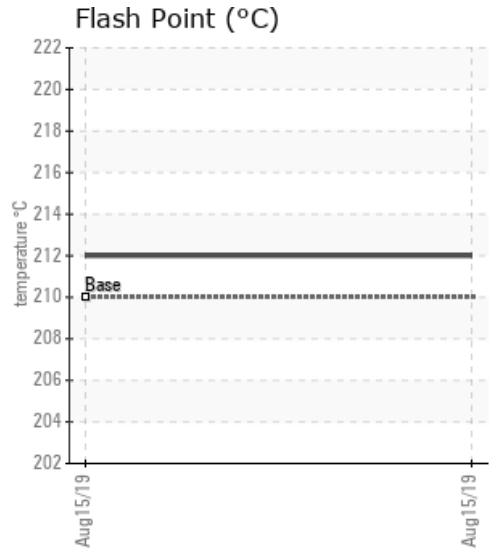
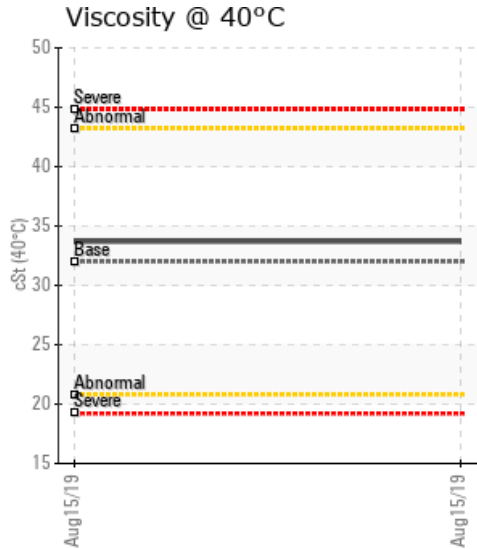
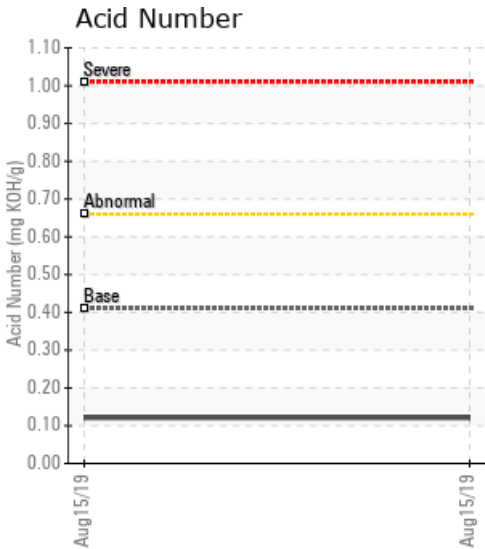
System Information
 System Volume: 5000 ltr
 Bulk Operating Temp: 425F / 218C
 Heating Source:
 Blanket:
 Fluid: HEAT TRANSFER FLUID ISO 32
 Make: FULTON

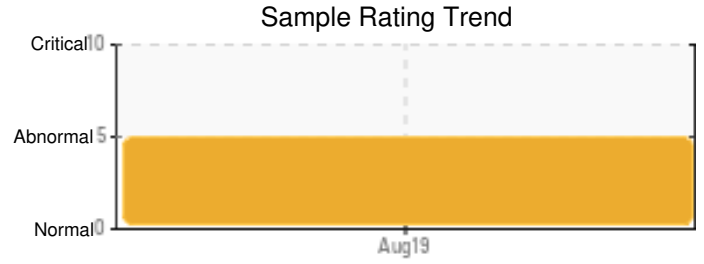
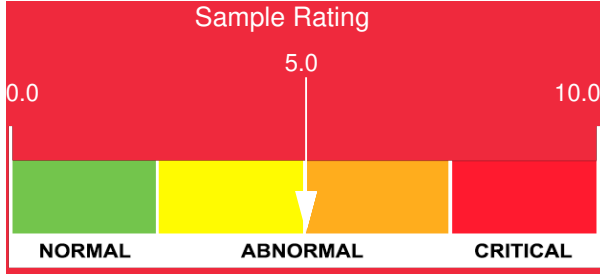
Sample Information
 Lab No: 02304944
 Analyst: Behshad Sabah
 Sample Date: 08/15/19
 Received Date: 08/27/19
 Completed: 09/03/19
 Behshad Sabah
 behshad.sabah@HFSinclair.com

Recommendation: System shows signs of dust and water based cleaner contamination. the TAN, Pentane insoluble and viscosity is in the range. there might be an issue during the sampling process.

Comments: Silicon ppm levels are severely high. Sodium ppm levels are severely high. (GCD) 90% Distillation Point is severely low.

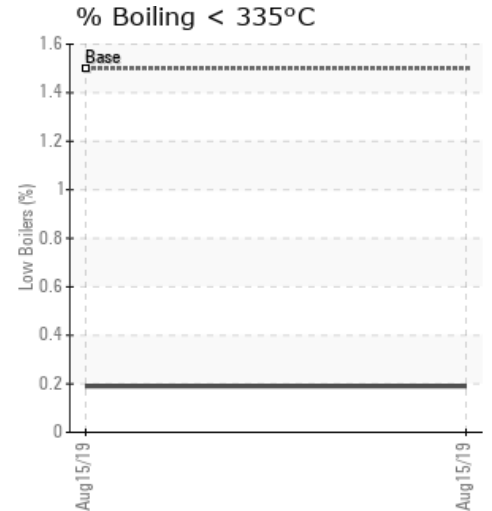
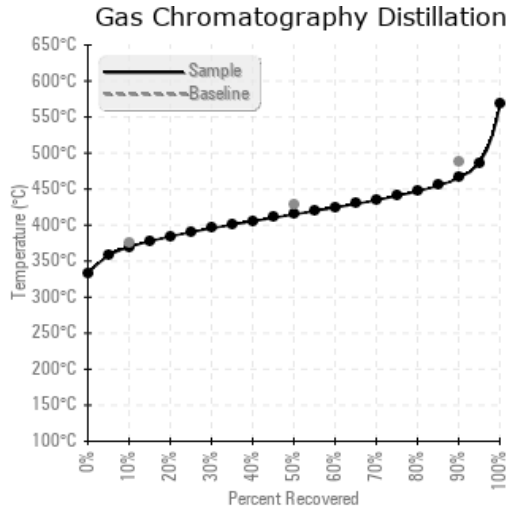
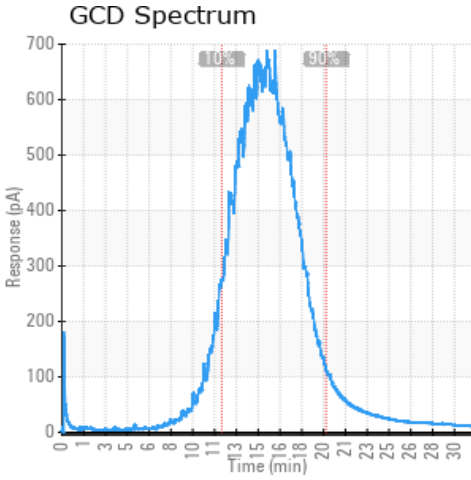
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
08/15/19	08/27/19	20.0y		414 / 212	193.9	33.7	0.121	0.075	697 / 369	779 / 415	870 / 465	0.19
Baseline Data				410 / 210		32	0.41		707 / 375	802 / 428	910 / 488	1.5





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	
08/15/19	3	0	0	0	0	0	0	0	0	0	110	526	2	0	0	0	0	0	0	0	0	0	0	3	0
Baseline Data			0	0						0			0	0					5				250		

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



Historical Comments	

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