



# FULTON

Customer: PTRHTF10202	System Information	Sample Information
MFM BUILDING PRODUCTS CORP. 525 ORANGE STREET COSHOCKTON, OH 43812 USA Attn: Tony Williams Tel: (740)622-2645 E-Mail: asw@mfmhcp.com	System Volume: 700 gal Bulk Operating Temp: 650F / 343C Heating Source: Blanket: Fluid: SUNOCO SUN HEAT TRANSFER 21 PD Make:	Lab No: 02234474 Analyst: Yvette Trzcinski Sample Date: 07/03/18 Received Date: 08/20/18 Completed: 09/24/18 To discuss this report contact Yvette Trzcinski at (262)933-0718

Recommendation: Fluid is showing signs of thermal cracking and oxidation degradation. The acid number is severely high at 0.712 the high critical limit for a system your size is 0.63 this indicates the fluid is oxidizing and generating acidic by products. The increase in high boilers GCD 90% and the decrease in low boilers at 10% both point towards thermal cracking and oxidation which leads to system deposits of carbonaceous and acidic material that leads to system inefficiency. Recommend scheduling a time to drain, flush and refill the system

Comments: Acid Number (AN) is severely high. (GCD) 90% Distillation Point is abnormally high. (GCD) 10% Distillation Point is marginally 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	%
07/03/18	08/20/18	6y	OIL STRAINER PORT	437 / 225	21.8	43.7	0.712	0.217	713 / 379	814 / 435	930 / 499	1.60
Baseline Data				439 / 226		50.0	0.03		777 / 414		900 / 482	0.25



