



HEAT TRANSFER SYSTEM

Customer: PTRHTF10195	System Information	Sample Information
Baker Manufacturing, LLC. 1349 Rockland Rd. Lake Bluff, IL 60044 USA Attn: Jeremy Huntington Tel: (847)514-9253 E-Mail: jhuntington@peterbaker.com	System Volume: 150 gal Bulk Operating Temp: 375F / 191C Heating Source: Blanket: Fluid: MOBIL MOBILTHERM 603 Make: WEBSTER	Lab No: 02207733 Analyst: Yvette Trzcinski Sample Date: 03/09/18 Received Date: 04/02/18 Completed: 04/05/18 To discuss this report contact Yvette Trzcinski at (262)933-0718

Recommendation: The viscosity of the fluid has gone from 20 cSt to 32 cSt a 60% increase. The total acid number is high as well as the GCD at 90% and a high solids rating over 0.5% - indicates the fluid is oxidized in the system. Recommendation is to drain and clean the system to provide the most efficient heat transfer.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is severely high. Calcium ppm levels are severely high. Visc @ 40°C 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	%
03/09/18	04/02/18	36m		432 / 222	38.7	32.7	0.618	0.790	691 / 366	791 / 421	909 / 487	1.09
Baseline Data				379 / 193		20.2	0.03		676 / 358		858 / 459	2.6



