

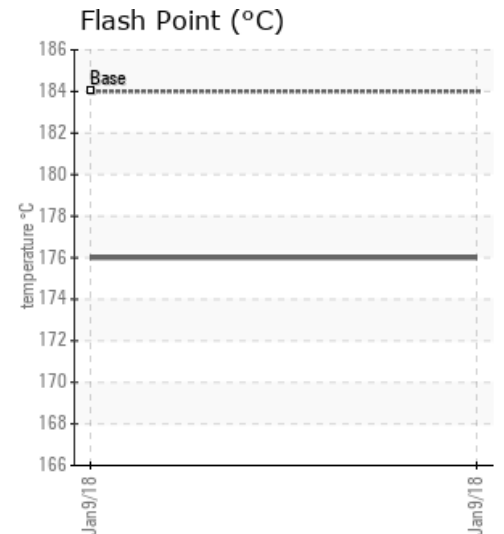
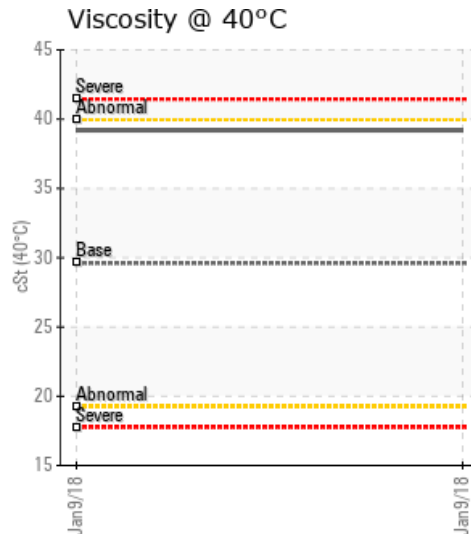
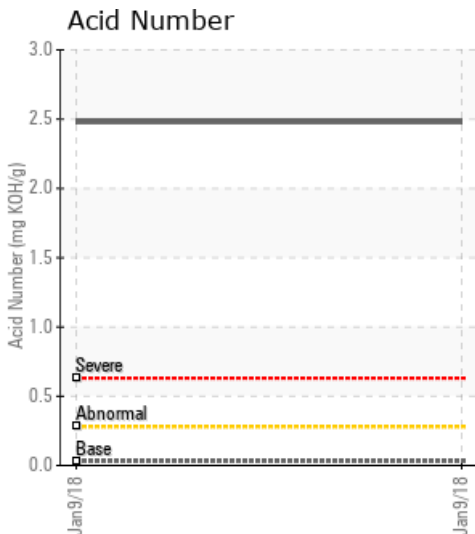
## 0793-06 PLASTICIZER HOT OIL UNIT

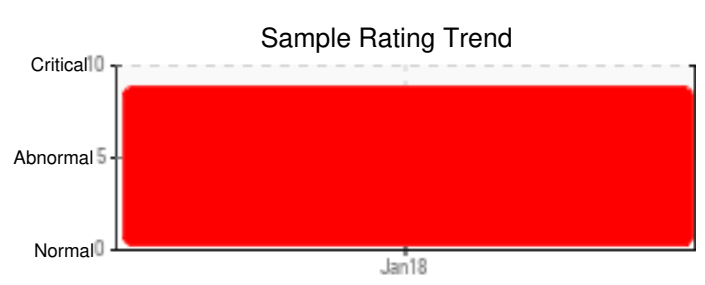
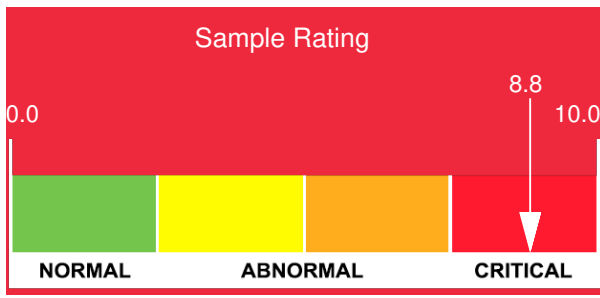
Customer: PTRHTF10191	System Information	Sample Information
Southwire Co. – SCBWP 3 Southwire Drive Carrollton, GA 30317 USA Attn: Bill Rayfield Tel: (770)832-4741 E-Mail: bill.rayfield@southwire.com	System Volume: 165 gal Bulk Operating Temp: 240F / 116C Heating Source: Blanket: Fluid: EASTMAN CHEMICAL THERMINOL 66 Make: ADVANTAGE	Lab No: 02193410 Analyst: Manny Garcia Sample Date: 01/09/18 Received Date: 01/18/18 Completed: 01/25/18

**Recommendation:** This system is a candidate for a complete fluid drain, flush and re-fill with Petro-Canada Cafflo AF or Cafflo LT. The system needs to be inspected to make sure there is no evidence of any carbon build-up on the tank walls/lines. We recommend a Cleaning if this material cannot be removed manually with Petro Canada Cleaning Fluid

**Comments:** The Acid Number correlates directly to the oil sample being oxidized at a 2.48 which is much higher then the limit of 1.0. Oxidation will increase the oils viscosity and make the fluid 'sludgy' as in the fact that the viscosity is higher by 32.4% which is unsatisfactory and was not flagged by the lab. Pentane insolubles are 'solids' found in this sample and the lab flagged this as unsatisfactory at 2.82. very Light debris found in the sample. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is severely high. (GCD) % < 335°C is marginally 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	%
01/09/18	01/18/18	5y		349 / 176	135.0	39.2	2.48	2.82	631 / 333	654 / 346	790 / 421	11.75
<b>Baseline Data</b>				363 / 184		29.6	0.03		658 / 348		738 / 392	2.00

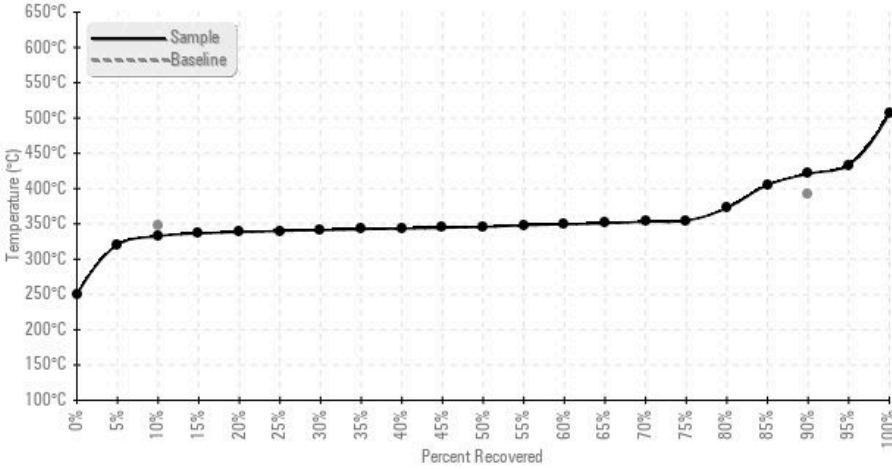




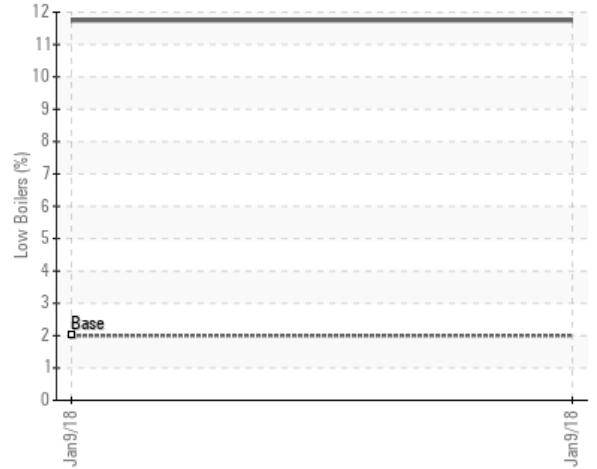
Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
01/09/18	71	0	0	0	4	6	0	0	0	0	0	2	0	0	0	0	0	0	0	6	8	0	0	1
<b>Baseline Data</b>			0	0						0			0	0					0				0	

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

#### Gas Chromatography Distillation (GCD)



#### % Boiling < 335°C



#### Historical Comments