

# CHRYSLER



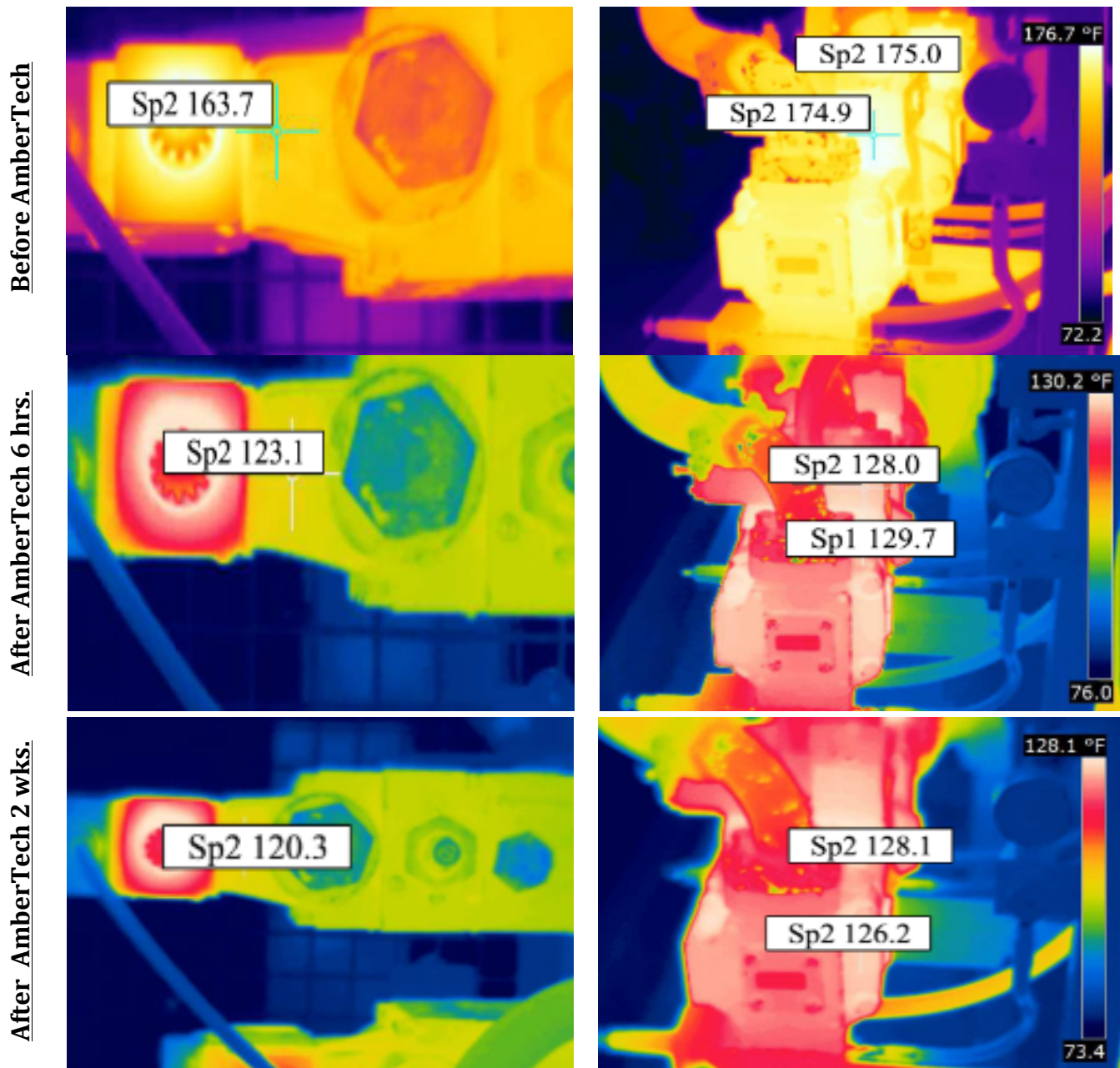
**Chrysler Corporation:** AmberTech M99 Heat Reduction Test

**Model:** 2 Oilgear High Pressure Hydraulic Pumps: PVWH34L and PVWH45L

**Treatment Ratio:** AmberTech M99 was added at a rate of 2 oz. per qt. of hydraulic fluid

**Duration:** January 14, 2014 to January 30, 2014

**Method:** Internal Computerized Ultraviolet Temperature Continuous Monitoring System



Pump/Valve	PVWH34L	PVWH45L	Valve on Manifold
Temp. Before AmberTech	174.9°F	175.0°F	163.7°F
Temp. 6 hrs. post M99 treatment	129.7°F	128.0°F	123.1°F
Temp. 2 wks. post M99 treatment	126.2°F	128.1°F	120.3°F
Total Temp. Reduction	48.7°F	46.9°F	43.4°F

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**Chrysler Corporation:** AmberTech M99 Heat Reduction Test

**Model:** 2 Oilgear High Pressure Hydraulic Pumps

**Treatment Ratio:** AmberTech M99 was added at a rate of 2 oz. per qt. of hydraulic fluid

**Duration:** January 14, 2014 to April 21, 2014

**Method:** Internal Computerized Ultraviolet Temperature Continuous Monitoring System

After AmberTech 3 months



## Ultraviolet Thermal Imaging Sustainability

- Temperature reductions sustained 3 months post AmberTech M99 treatment
- The Hydraulic system on the left was treated with AmberTech M99
- The Hydraulic system on the right was never treated with AmberTech M99

Hydraulic Pump	Sp1/Sp4	Sp2/Sp3
Hydraulic Pump without M99	160.2 °F	143.2 °F
Hydraulic Pump treated with M99	138.6 °F	125.3 °F
Difference in Temperature Readings	21.6 °F	17.9 °F

Hydraulic Pump	Temperature Reading
Hydraulic Pump before AmberTech M99	174.9 °F
Hydraulic Pump 3 months post AmberTech M99	138.6 °F
Temperature Reduction	36.3 °F

Real Life Image

