## ArmaKleen Technical Service Report Summary

Cleaning Trial Type: Aqueous

Industry: OEM Manufacturing

Segment: 54 MFG – Transportation Equipment

**Soil:** Oil, drawing lube

Substrate: Steel

**Description of Part(s):** Steel pipes/tubes

**Customer objective:** The customer was looking to improve their cleaning performance and reduce rework and reject rate.

Cleaner used: 5% by volume ArmaKleen<sup>™</sup> 4 in 1 Cleaner

Machine used:

- 1. Spray Under Immersion Washer (Graymills T12, Graymills T24, SK 81.8 w/ SUI)
- 2. Agitating Immersion Washer (SK 81.8, Graymills T12, Graymills T24)
- 3. Ultrasonic Washer (SK 6315)

Temperature used: 160°F

Time required: 15 to 30 minutes

**Post Cleaning:** Fresh water rinse followed by air pressure drying.

**Recommendation to Customer:** The ArmaKleen Technical Center recommended using 5% by volume ArmaKleen<sup>™</sup> 4 in 1 Cleaner at 160°F in an Ultrasonic Washer, or a Spray Under Immersion Washer or an Agitating Immersion Washer for a minimum of 15 to 30 minutes.

## **Before Picture**

## **After Picture**

