

## ***ArmaKleen Technical Service Report Summary***

**Cleaning Trial Type:** Aqueous

**Industry:** OEM Metal Parts Manufacturing

**Segment:** 28 – Manufacturing – Machine including Medical

**Soil:** Shop dirt, oil, cutting fluids, metal fines

**Substrate:** Steel, aluminum

**Description of Part(s):** Engine parts

**Customer objective:** The customer was looking to improve their cleaning performance, automate their cleaning process, reduce rework and reject rate an clean mixed metals together.

**Cleaner used:**

- 10% by volume ArmaKleen™ M-Aero
- 5% by volume ArmaKleen™ 4 in 1 Cleaner

**Machine used:** Spray Under Immersion Washer (Graymills T12, Graymills T24, SK 81.8 w/SUI)

**Temperature used:** 150° - 160°F

**Time required:** 10 to 30 minutes

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

**Recommendation to Customer:** The ArmaKleen Technical Center recommended using 10% by volume ArmaKleen™ M-Aero at 160°F or 5% by volume ArmaKleen™ 4 in 1 Cleaner at 150°F in a Spray Under Immersion Washer for a minimum of 10 to 30 minutes.

**Before Picture**



**After Picture**

