

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

**Cleaning Trial Type:** Aqueous

**Industry:** Transmission Distribution

**Segment:** 01 – Auto Maintenance

**Soil:** Shop dirt, oil, grime, grease and baked on carbon

**Substrate:** Aluminum, stainless steel, steel

**Description of Part(s):** Two aluminum engine parts

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

**Cleaner used:**

- 5% by volume solution of ArmaKleen™ 4 in 1 Cleaner
- 5% by volume solution of ArmaKleen™ M-100 BCR

**Machine used:**

- Spray Washer (JRI TL3, JRI FL250, JRI FL500, Better Engineering G-2000)
- Spray Under Immersion Washer (Graymills T12, Graymills T24, SK Model 81.8 w/SUI)

**Temperature used:** 160°F

**Time required:**

- 4 hours (5% by volume solution of ArmaKleen™ 4 in 1 Cleaner)
- 6 hours (5% by volume solution of ArmaKleen™ M-100 BCR)

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

**Recommendation to Customer:** The ArmaKleen Technical Center recommends using a 5% by volume solution of ArmaKleen™ 4 in 1 Cleaner at 160°F in a Spray Washer for a minimum of 4 hours or a 5% by volume solution of ArmaKleen™ M-100 BCR at 160°F in a Spray-Under Immersion Washer for a minimum of 6 hours

**Before Picture**



**After Picture**



**Source:** TSR #16-A-058