

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

**Cleaning Trial Type:** Aqueous

**Industry:** Electronic Remanufacturer

**Segment:** N/A

**Soil:** Oil, glue/adhesive, grime and baked on carbon

**Substrate:** Aluminum

**Description of Part(s):** Two cast aluminum HD Transmission Circuit Boards. One of the circuit boards has assorted electronic connections attached.

**Customer objective:** The customer was looking to improve their cleaning performance.

**Cleaner used:** 5% by volume solution of ArmaKleen™ 4 in 1 Cleaner

**Machine used:**

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

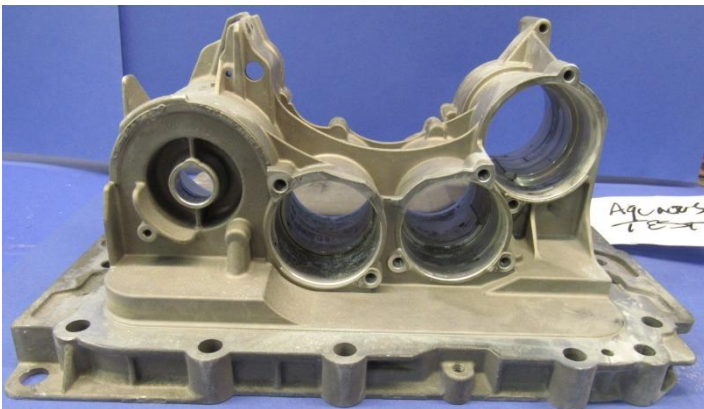
**Temperature used:** 160°F

**Time required:** 15 minutes

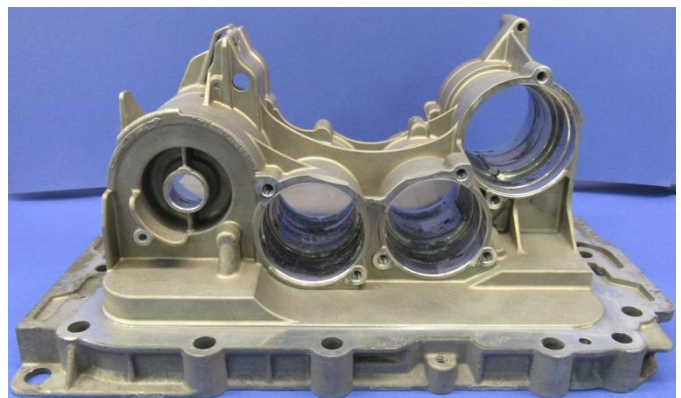
**Post Cleaning:** Openings were lightly brushed with a nylon bristle brush during fresh water rinse followed air pressure drying.

**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-Under Immersion Washer for a minimum of 15 minutes or a 5% by volume solution of ArmaKleen™ 4 in 1 Cleaner at 160°F in a Spray Washer for a minimum of 15 minutes.

**Before Picture**



**After Picture**



**Source:** TSR #17-A-018