

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

**Cleaning Trial Type:** Aqueous

**Industry:** Gearbox Manufacturer

**Segment:** 28 – Mfg – Machine (incl medical)

**Soil:** Oil, cutting fluids and grease

**Substrate:** Steel, aluminum, brass, plastic and powder metal zinc plate

**Description of Part(s):** An assortment of machine parts

**Customer objective:** The customer is looking to improve their cleaning performance, automate their cleaning process, reduce rework and reject rate, clean mixed metals together, reduce their cleaning costs and eliminate hazardous chemical/waste

**Cleaner used:** 10% by volume solution of ArmaKleen™ M-HP-2

**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:** 1 hour

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

**Recommendation to Customer:** The ArmaKleen Technical Center recommends using a 10% by volume solution of ArmaKleen™ M-HP-2 at 160°F in a Spray Washer for a minimum of 30 minutes to 1 hour.

**Before Picture**



**After Picture**



**Source:** TSR #16-A-094