

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

**Cleaning Trial Type:** Aqueous

**Industry:** Automotive Parts Manufacturing

**Segment:** 54 Transportation Equipment Manufacturing

**Soil:** Oil, baked on carbon

**Substrate:** Steel

**Description of Part(s):** Assortment of pins

**Customer objective:** Improve cleaning performance, automate cleaning process, reduce rework and reject rate

**Cleaner used:** 10% by volume ArmaKleen™ M-100 BCR

**Machine used:**

- Agitating Immersion Washer (Graymills T12, Graymills T24, SK Model 81.8)
- Ultrasonic Washer (SK Blackstone 6315)

**Temperature used:**

- 150°F
- 160°F

**Time required:** 30 minutes-2 hours

**Post Cleaning:** Half of the parts were rinsed with fresh water and air pressure dried, while the other half were not rinsed and only air pressured dried; all parts were placed in an incubator at 220°F for further drying

**Recommendation to Customer:** The ArmaKleen Technical Center recommends using a 10% by volume solution of ArmaKleen™ M-100 BCR at 150°F in an Agitating Immersion Washer for a minimum of 30 minutes to 2 hours

**Before Picture**



**After Picture**



**Source:** TSR #19-A-021