

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

**Cleaning Trial Type:** Aqueous

**Industry:** Automotive remanufacturing

**Segment:** 03 Dealerships - Auto

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

**Substrate:** Steel

**Description of Part(s):** Steel gear shaft, steel gear and a steel pulley wheel

**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 ArmaKleen™ 4 in 1 Cleaner
- 10% by volume ArmaKleen™ M-301

**Machine used:** Ultrasonic Washer (SK Blackstone model 6215)

**Temperature used:** 160°F

**Time required:** 3 to 4 hours

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

**Recommendation to Customer:** The ArmaKleen Technical Center recommended using either 5% by volume ArmaKleen™ 4 in 1 Cleaner or 10% by volume ArmaKleen™ M-301 at 160°F in an Ultrasonic Washer for a minimum of 3 to 4 hours.

**Before Picture**



**After Picture**



**Source:** TSR #13-A-197