

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

**Cleaning Trial Type:** Aqueous

**Industry:** Automotive Remanufacturing

**Segment:** 01 Auto Maintenance

**Soil:** Shop dirt, oil, grime, grease

**Substrate:** Steel

**Description of Part(s):** Steel engine head

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

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

**Machine used:** 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 recommended using 5% by volume ArmaKleen™ 4 in 1 Cleaner at 160°F in a Spray Washer for a minimum of 1 hour.

**Before Picture**



**After Picture**



**Source:** TSR #13-A-146