

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

**Cleaning Trial Type:** Aqueous

**Industry:** OEM manufacturing

**Segment:** 28 – Mfg – Machine (Incl Medical)

**Soil:** Oil, TOWERK EM 550

**Substrate:** Steel

**Description of Part(s):** Steel rings

**Customer objective:** The customer was looking to improve their cleaning performance, reduce rework and reject rate, reduce their cleaning costs, eliminate hazardous chemicals and waste and reduce VOCs.

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

**Machine used:** Agitating Immersion Washer (SK 81.8, Graymills T12, Graymills T24)

**Temperature used:** 150°F

**Time required:** 15 minutes

**Post Cleaning:** Fresh water rinse followed by air drying for half of the parts tested and no rinsing with air drying for the other half of the parts tested.

**Recommendation to Customer:** The ArmaKleen Technical Center recommended using 5% by volume ArmaKleen™ 4 in 1 Cleaner at 150°F in an Agitating Immersion Washer for a minimum of 15 minutes.

**Before Picture**



**After Picture**



**Source:** TSR #15-A-116