

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

**Cleaning Trial Type:** Aqueous

**Industry:** Oil Refining

**Segment:** 21 Chemical Manufacturing

**Soil:** Shop dirt, oil, grime, silicone, grease, baked on carbon, rust/oxides, liquid polyester paint, liquid epoxy paint, epoxy powder coat paint, polyester powder coat paint, liquid alkyd paint and liquid urethane paint

**Substrate:** Steel, stainless steel

**Description of Part(s):** Pistons housing unit

**Customer objective:** Improve cleaning performance, automate cleaning process, eliminate hazardous chemicals/waste, reduce VOCs

**Cleaner used:** 5% by volume ArmaKleen™ BIO-24

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

**Temperature used:** 150°F

**Time required:** 8 hours

**Post Cleaning:** Fresh water rinse and air pressure dried, followed by drying in an incubator at 220°F

**Recommendation to Customer:** The ArmaKleen Technical Center recommends using a 5% by volume solution of ArmaKleen™ Bio 24 at 150°F in an Agitating Immersion Washer or at 150°F for a minimum of 8 hours

**Before Picture**



**After Picture**



**Source:** TSR #19-A-019