

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

**Cleaning Trial Type:** Aqueous

**Industry:** Metal-working

**Segment:** 26 Fabricated Metal Products

**Soil:** Vibratory residue

**Substrate:** Steel, aluminum

**Description of Part(s):** Ductile iron machined cast dies

**Customer objective:** Automate cleaning process and have cleaned/dried parts be rust-free

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

**Machine used:** Spray Under Immersion Washer (Graymills T12, Graymills T24, SK Model 81.8 w/ SUI)

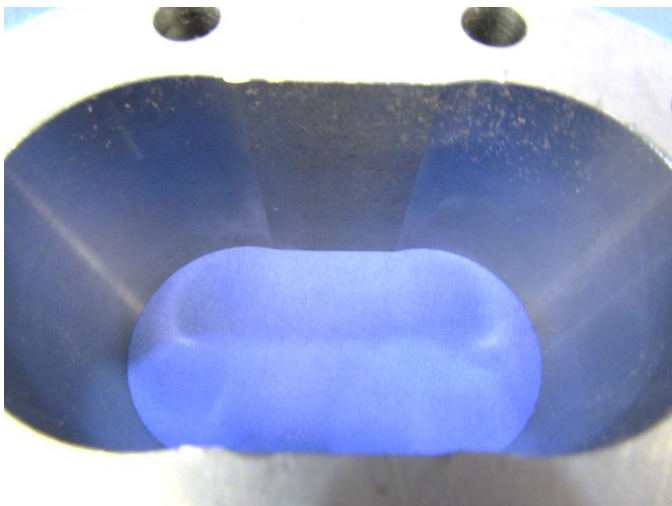
**Temperature used:** 160°F

**Time required:** 15 minutes

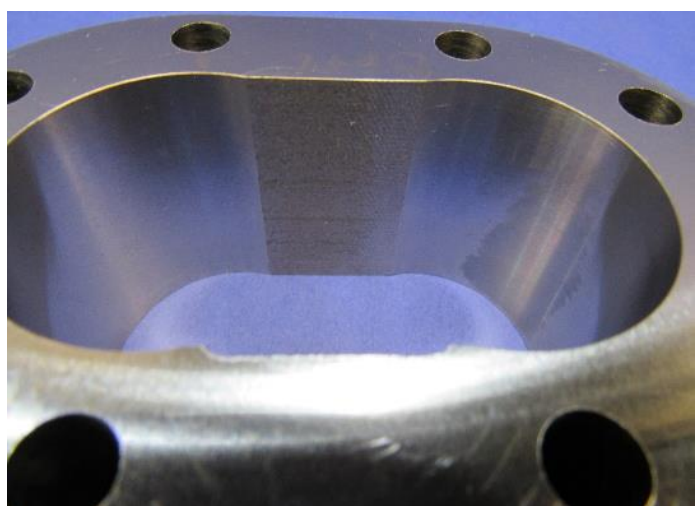
**Post Cleaning:** Fresh water rinse and air pressure dried, followed by parts being placed in an incubator at 220°F

**Recommendation to Customer:** The ArmaKleen Technical Center recommends using a 5% by volume solution of ArmaKleen™ Bio 24 at 160°F in a Spray-Under Immersion Washer for a minimum of 15 minutes

**Before Picture**



**After Picture**



**Source:** TSR #19-A-035