

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

**Cleaning Trial Type:** Aqueous

**Industry:** Train Development

**Segment:** Taxi, Bus, & Other Local Transportation

**Soil:** Shop dirt, oil, metal chips from machining

**Substrate:** Aluminum

**Description of Part(s):** Assorted manifolds for train hydraulic breaking units

**Customer objective:** Improve cleaning performance, reduce rework and reject rate, recover scrap parts

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

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

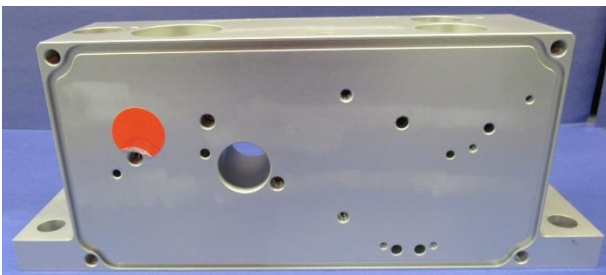
**Temperature used:** 150°F

**Time required:** 30 minutes to 2 hours

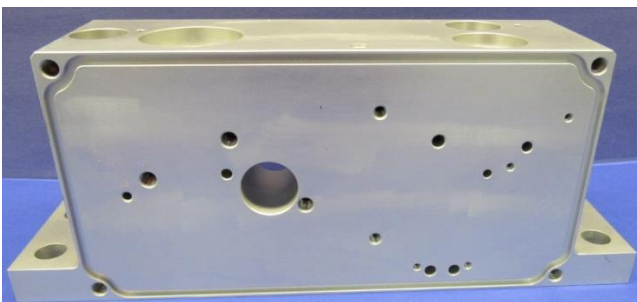
**Post Cleaning:** Fresh water rinse and air pressure dried (several areas with adhesive tape/adhesive stickers were brushed with a soft nylon bristle brush during the fresh water rinse)

**Recommendation to Customer:** The ArmaKleen Technical Center recommends using a 5% by volume solution of ArmaKleen™ Bio 24 at 150°F in a Spray-Under Immersion Washer for a minimum of 30 minutes to 2 hours

### **Before Picture**



### **After Picture**



**Source:** TSR #18-A-125