

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

**Cleaning Trial Type:** Aqueous

**Industry:** Petrochemical Refining

**Segment:** 13 – Trucking & Trans Co (excluding Package Delivery)

**Soil:** Sweet crude oil

**Substrate:** Stainless steel, aluminum, rubber and plastic

**Description of Part(s):** Two-handled connector units and j-connector pipes

**Customer objective:** The customer was looking to improve their cleaning performance.

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

**Machine used:**

1. Spray Under Immersion Washer (Graymills T12, Graymills T24, SK 81.8 w/ SUI)
2. Agitating Immersion Washer (SK 81.8, Graymills T12, Graymills T24)

**Temperature used:** 160°F

**Time required:** 8 hours

**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 Under Immersion Washer or an Agitating Immersion Washer for a minimum of 8 hours.

**Before Picture**



**After Picture**



**Source:** TSR #13-A-086