

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

**Cleaning Trial Type:** Aqueous

**Industry:** Truck dealership

**Segment:** 3 – Dealership - Auto

**Soil:** Oil, grime, grease, baked on carbon and reddish transmission-like fluid

**Substrate:** Steel

**Description of Part(s):** An EGR Cooler with interior fins. This part consists of a stainless steel exterior with steel end caps and fittings.

**Customer objective:** The customer was looking to improve their cleaning performance, reduce their cleaning costs and keep the cleaning process in-house.

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

**Machine used:** Ultrasonic Washer (SK Blackstone 6315)

**Temperature used:** 160°F

**Time required:** 4 hours

**Post Cleaning:** Interior of part was flushed with clear water after the 1 hour, 2 hour and 4 hour marks of cleaning. The part was fresh water rinsed and air pressure dried.

**Recommendation to Customer:** The ArmaKleen Technical Center recommends using a 5% by volume solution of ArmaKleen™ 4 in 1 Cleaner at 160°F in an Ultrasonic Washer for a minimum of 4 hours.

**Before Picture**



**After Picture**



**Source:** TSR #17-A-029