

# World Class Cleaning Solutions

## Case Study

### Auto Intake Manifold Cleaning

#### CUSTOMER DETAILS

**Product:** AquaVantage® 815 GD-NF

**Parts Cleaned:** Automotive intake manifold. Various models and sizes.

**Specific Metals:** Cast Aluminum.

**Removing What Soil:** Oil, particulate, carbon, ambient soils.

**Why:** Cleaning can be expensive and problematic; incorrect cleaning will damage part or fail to clean.

**Current Process:** Various.

**Improvements Sought:** Fast effective on-site way to clean at repair shop.

#### EQUIPMENT USED

Ultrasonic Washer, 20 or 40 gallon capacity, 40 kHz, Tierra Tech.

#### BRULIN PARTNER PROCESS

**Chemistry:** AquaVantage® 815 GD-NF

**Concentration:** 10-12%

**Temperature:** 149°F / 65°C

**Time:** 15 minutes wash time.

**Rinse Water Number and Time:** 1 stage, ~5 min or as needed

**Dry:** Ambient

#### RESULTS

Parts are clean, undamaged, restored to original condition.

#### REASON BRULIN WON

AquaVantage® 815 GD-NF quickly removes soils without damaging the aluminum part. Distributor partners supplies effective washing system

#### CURRENT SITUATION WITH PROCESS

Introduce to smaller repair shops



Before



After