



World Class Cleaning Solutions

# CASE STUDY

## Diesel Particle Filter Cleaning and Overhaul

### Customer Details:

**Product:** AquaVantage® 815 QR-NF

**Parts Cleaned:** Diesel Particle Filters, various models and sizes from Ford Focus/ Volvo V50 to commercial excavator.

**Specific Metals:** Materials typically Stainless Steel, Ceramic, Binder. Highly alkaline chemistry can dissolve binder.

**Removing What Soil:** Particulate, carbon, ambient soils. Frequently so clogged that water can't be poured through the filter. Mild chemistry ineffective against soils.

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

**Current Process:** Typically discarded and replaced (cost from <US\$ 1,000 to US\$ 8,000) or sent to specialist overhaul shop.

**Improvements Sought:** On-site way to clean at repair shop.

### Equipment Used:

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

### BHC Partner Process:

**Chemistry:** AquaVantage 815QR-NF

**Concentration:** 10-15%

**Temperature:** 158F / 70C

**Time:** 4 hours total wash time. (Immerse entire filter + housing. 1 hour ultrasonic wash, drain soiled solution, blow through filter with shop air; repeat x 4).

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

**Dry:** shop air, ambient

**Results:** Parts are clean, undamaged, restored to original condition.

**Reason BHC Won:** AquaVantage 815 QR-NF is ideal strength to remove soils without damaging the part. Distributor partners supplies effective washing system.

### Equipment Used:

Introduce to smaller repair shops.

