



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.

BRULIN PARTNER PROCESS

Chemistry: AquaVantage® 815 QR-NF
Concentration: 10-15%
Temperature: 158°F / 70°C
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 BRULIN WON

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

CURRENT SITUATION WITH PROCESS

Introduce to smaller repair shops

