



World Class Cleaning Solutions

Case Study

Inconel and Titanium Rotating Parts: FPI Prep.

CUSTOMER DETAILS

Product: Aerospace Engines

Parts Cleaned: Rotating Jet Engine Parts

Removing What: Mostly coolants, lubricants, FPI/Zyglo

Why are Parts Degreased: Parts must be cleaned after every operation by a GE approved cleaner to a GE spec.

CUSTOMER PROCESS BRULIN REPLACED

Current Chemistry: AquaVantage® 1990 GD

Concentration: 5%

Washer Type: 1 Kemec, 5 Better Engineering, 3 Stoelting, all cabinet washers.

Specific Metals: Inconel, Titanium

Temperature: 140°F-150°F (60°-66°C)

Time/Line Speed: 10 min. Wash, 10-minute rinse

Customer Improvement Requested: Initially looking for better cleaning pre-FPI Cleaning in Kemac washer. Kemac washer was moved in plant closer to FPI Cell and after Zyglo adhesion to the component was poor. The washer itself was reviewed and no mechanical issues were found with washer. AquaVantage® 3887GD was evaluated and Zyglo adhesion improved dramatically. Then tested AquaVantage® 3887 GD in a Stoelting and Better Engineering washer.

BRULIN IMPLEMENTED PROCESS

Chemistry: AquaVantage® 3887 GD

Concentration: 5%

Temperature: 140°F (60°C)

Time/Line Speed: 10 Min. Wash, 10 Minute Rinse

Dry: 15 Minutes

RESULTS

Improved wetting of the FPI/Zyglo solution on the part surface.

REASON BRULIN WON

Switched over all washers to AquaVantage® 3887GD from AquaVantage® 1990 GD.

