



COORDINATING
AGENCY FOR
SUPPLIER
EVALUATION

Audit & Compliance Alert

December 2024

Subject: *Additional Required Procedures for Water Barrier Filters*

Through a Product Safety Awareness Bulletin dated December 2024, Parker Velcon notified the industry that a manufacturing defect affecting a small number of CDFX water barrier elements had been detected.

Therefore, the following additional required procedures for water barrier filters are outlined in ATA 103, Bulletin 2024.4 and are being imposed with immediate effect. The bulletin can be downloaded for free from the A4A website: https://www.airlines.org/wp-content/uploads/2024/12/A4A-Bulletin-2024.4_Additional-Required-Procedures-for-Water-Barrier-Filters.pdf

It outlines required procedures to be accomplished while changing water barrier elements and apply to all water barriers regardless of brand / manufacture date.

Listed below is a summary of the required actions, **please refer to the bulletin for the entirety of information.**

3.13 - All manufacturer instructions for filter element change procedures shall be adhered to. For water barrier filter elements only, the procedures in Section 3.19 shall be followed in addition to the procedures below.

Although it may be best practice to perform these tests prior to installing the elements, the Pre-Installation checks outlined in section 3.19 (b) are recommendations but are not mandatory.

3.19 (b)

1. - Pre-installation check option 1:

- i. Fill a clean bucket or other suitable container with jet fuel*
- ii. Take a sample of the pre-soak fuel in a clear glass jar, white bucket, or other suitable container*
- iii. Submerge the entire water barrier element(s) and soak for 20 minutes, minimum. Periodically observe the fuel for any signs of dye leaching from the outer screen*
- iv. After the minimum soak, take a sample of post-soak fuel in a clear glass jar, white bucket, or other suitable container*
- v. Compare the pre-soak and post-soak fuel samples and inspect for fuel discoloration*

2. - *Pre-installation check option 2:*

- i. Dampen a clean white cloth with jet fuel*
- ii. Vigorously wipe the entire length of the water barrier element for 30 seconds, minimum*
- iii. Inspect the white cloth for any discoloration*

However, items listed in section 3.19 (c) are required as follows:

3.19 (c) *Immediately following the installation of elements and closure of vessel:*

- 1. Confirm outlet valve remains in the fully closed position*
- 2. Open shutoff valves and allow the filter vessel to fill slowly, allowing entrapped air to escape*
- 3. Inspect for leaks. Repair as necessary*
- 4. Close inlet valve and confirm outlet and inlet valve are both in fully closed position*
- 5. Let barrier elements soak for a minimum of 20 mins*
- 6. After the minimum soak, take a sample from the upstream sampling port in a suitable container*
- 7. Take a second sample from the sump or low point of the filter vessel into a second suitable container*
- 8. Visually compare the two samples to look for any evidence of color change:*
 - i. If color change is observed*
 - 1. Fuel in vessel shall be disposed of (fuel cannot be reclaimed) and the water barrier elements shall not be used*
 - 2. Wash the interior of the vessel, including the sump (if fitted), with clean jet fuel*
 - 3. Affected carrier(s) shall be notified immediately in accordance with Paragraph 2.1.5.*
 - ii. If no color change is observed, continue with vessel commissioning procedures*