

We were requested to conduct in-situ inspection, maintenance – and eventually – upgrade works on our customer’s 1700 DWT (1150 PAX) passenger vessel’s ME LO and LT FW Coolers.

**WORKFLOW SUMMARY**

**1** Inspection Stage:

**ME LO Coolers findings:**

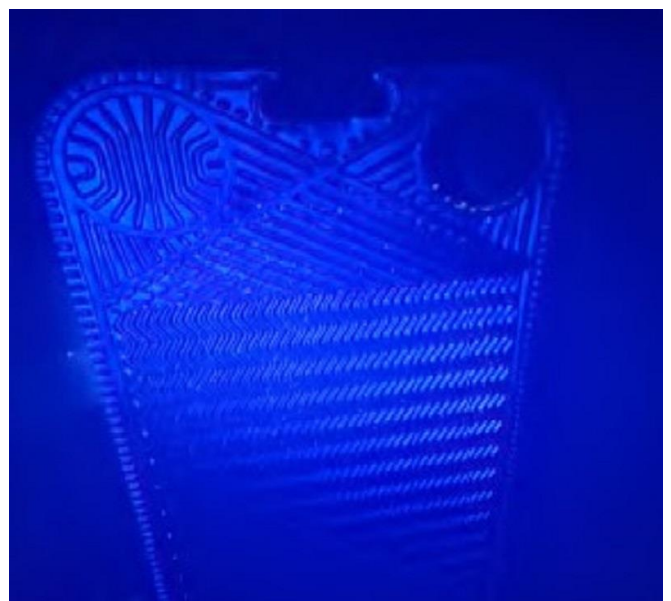
- Frame plate corroded at the SW inlet
- Groove deformations on several plates due to excessive tightening
- Wrong plate sequencing

**LT FW COOLERS findings:**

- Plate packs had been excessively compressed and the majority of plates were found heavily deformed
- Plate packs were found in poor condition, where the material aging was evident

**PROJECT SCOPE:** Various PHE in-situ Maintenance

**MAKE | MODEL:** APV R55, N35,  
**LOCATION:** Piraeus  
**VESSEL TYPE:** ROPAX Vessel  
**CAPACITY:** 1700 MTS (1150 PAX)



**2** Maintenance & Repairs Stage:**ME LO COOLERS services:**

- Frame inlets were reconditioned and machined.
- Frame sets were epoxy painted.
- Pressure plates were upgraded with filter sets and flanges.
- All plates were checked, cleaned, repaired from deformations and re-gasketed.
- Units were hydrotested at both circuits. No leakages were detected.

**LT FW COOLERS services:**

- Frame sets were machined, reconditioned and epoxy painted.
- Pressure plates were upgraded with filter sets and flanges.
- Rubber sleeves and bolts were renewed.
- All plates were checked, cleaned, repaired from deformations and re-gasketed.
- Units were hydrotested at both circuits. No leakages were detected.

**3** Recommendations Stage:

- We advised our customers not to combine existing with new plates, and rather opt for the renewal option through acquiring and installing a complete plate pack. This way they can enjoy long-lasting, efficient performance results.

**4** Outcome Stage:

- All units were delivered compressed and ready-for-installation.
- Our customers' lady was geared-up for her new voyages and ready to provide tons of joy to her future passengers.

