

Challenge

Issue

Failed coating led to pitting corrosion of structural steel at bearing housing interface, resulting in lubricating oil leaking into river. This creates an environmental hazard and possible fines for pollution.

Goals

- Preserve integrity of structural steel
- Prevent damage to bearings

Root Cause

Severe corrosion of the steel structure had damaged the bearings, resulting in leaking of lubricating oil into the Danube River.

Solution

Preparation

- Grit blast to Sa 2.5 with 3 mil (75 µm) angular profile

Application

1. Apply 2 coats of **ARC 855** @ 15-20 mils (375-500 µm) per coat

Results

Client Reported

Long-term corrosion protection of structural steel and prevention of bearing failure and associated oil leakage.

Client Savings

Potential fines for environmental pollution.



Pitting corrosion on structural steel



The drum screen prior to protection



Completed application including ARC protection, and new shaft seals and bearing protection