

# ALUMINUM BOILER CLOSED LOOP SYSTEM

# 100%

SYSTEM CONTROL

ODYTHERM IF 550M and FS 500 offer lasting protection for aluminum boilers, which are highly susceptible to corrosion.



**LOCATION:**  
SOUTHERN  
FRANCE

**EQUIPMENT:**  
Aluminum boiler in a  
heating system.

**Metals present:**  
Steel, copper and aluminum

**Total estimated volume**  
2600 US gallons (10 m<sup>3</sup>)

Joint-ownership residential  
properties.



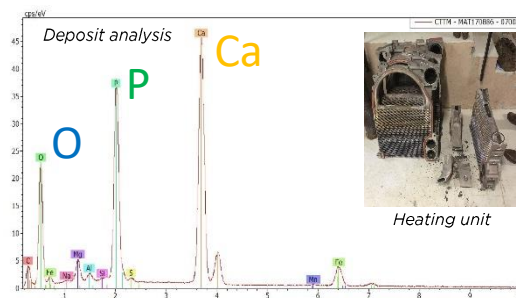
## CLIENT CHALLENGE

The boom in aluminum boilers has led to an increased number of lawsuits from system failure.

Poor control of the makeup water's hardness combined with PO<sub>4</sub>-based preventative water treatments generates calcium phosphate precipitation.

As aluminum is particularly vulnerable to under deposits corrosion, this has

led to several boilers failures.



## ODYSSEE'S SOLUTION

- Stop the applied PO<sub>4</sub>-based preventive water treatment.
- Drain and gently clean the networks using our **ODYTHERM IF 550M** combined with our **ODYCLEAR** filter.

ODYCLEAR



- Set up a makeup water hardness remote monitoring system that is managed through our **ODYSECURE** system (on the way).



- After cleaning the network, switch to a film-forming amine based preventative treatment: **ODYTHERM FS 500**
  - ❖ Extremely stable at high temperatures
  - ❖ No risk of precipitation
  - ❖ Cleaning effect
  - ❖ Excellent protection against corrosion for all metals, including aluminum and aluminum alloy
  - ❖ Improved energy performance
  - ❖ Competitive pricing and low doses
  - ❖ Easy-to-use, thanks to the field kit
  - ❖ Biodegradable with low toxicity

