

CLEANING OIL-FUELED DRYING OVEN AT WERKSTAETTEN NORDHORN

PARTIES & INDIVIDUALS:

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PERIOD:

March 2012.

BACKGROUND:

Werkstaetten Nordhorn manufactures oil-fueled drying ovens and associated hardware. Following a fire, two ovens were returned to the workshop with excess carbon inside. The furnaces are dimple plated, with two stainless steel walls connected to one another by spot welding. Thermal oil then flows between these walls at more than 200°C. The maximum passage size is 2 millimeters. The adhesion of carbon is impeding the flow of thermal oil, which eventually leads to a system blockage.

TASK:

Completely clean the oven and remove all carbonaceous deposits without having to dismantle it.

ACTION:

Archoil AR2300 is circulated through the drying oven at a ratio of 1:10, using the ISOPur filter and thermal oil. AR2300 suspends the carbon deposits and the ISOPur Nano Filter then removes the particles from the oil. This includes all particles smaller than 500 nanometers.

RESULT:

The internal components of the drying oven and the piping were cleaned. The flush process and filtering cost € 4,500 including labour and travel expenses. Normal cost of opening, cleaning and reassembling the drying oven is estimated at € 250,000.

PRODUCTS TESTED

Archoil AR2300 Pro Fluid System Cleaner

