

## Schroeder Industries Provides Solution to Remove Water in Oil

### Background

Schroeder Industries and a Filter Systems Distributor worked together to provide a contamination control dehydration solution to remove free and dissolved water from a Rod Mill Gear Box. The dehydration unit was a portable solution to meet the customer's water in oil issues on equipment that is the heart of their production line.

### Problem

A Rod Mill producing aluminum rods was having major water in oil ingress in its gear boxes. The water and the very viscous nature of the lube oil was creating operational issues for the gear boxes on the Mill's main production line.

### Solution

The distributor proposed that a portable contamination control Dehydration Station be placed next to the gear box to remove water and particulate contamination. The Schroeder Industries Triton Dehydration Station was chosen due to its light weight, compact portable design, and capability to eliminate 100% of free and up to 90% of dissolved water in this application. Using a patented mass transfer process, the Triton Dehydration Station efficiently removes water and particulate contamination in this environment.

### Specifications

**Type of Machinery:** Primary Metals Aluminum Rod Mill

**Fluids Addressed:** ISO 220 VG Lube Oil

**Schroeder Product:** TDS-A

**Reservoir Size:** 55 Gallon



TDS-A

### Result

The Triton Dehydration Station was installed and after four days of use, the saturation point of the oil in the reservoir dropped to 57%. The mill personnel were very happy to see the positive results and after another three days of operation, the Triton achieved the dryness target of 40% Saturation. The solution resolved the Mill's concerns about shutdown for oil replacement and operations issues that could affect their production and delivery schedule.

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