

Schroeder Industries Applies Dehydrator For Water Removal In Reservoir

Background

A major faucet manufacturer contacted Schroeder Industries with a request to remove water from a fluid in a 350 gallon reservoir. The reservoir contained a PAO fluid, which was used as a lube for parts in a machining operation. The parts are water washed at the end and some water is collected in the PAO fluid.

The diluent is then collected in 175 gallon storage totes after use.



Solution

A Triton-A Dehydration Station (TDS-A) at 1.5 gpm was used to reclaim the PAO fluid. The starting water saturation was 77% and dropped down to 30% after cycling through the TDS-A for 72 hours at ambient temperature. The PAO fluid was then reintroduced to the lube system.



Triton-A Dehydration Station (TDS-A) on cart

Specifications

Type of Machinery: 350 gallon reservoir

Fluids Addressed: PAO Fluid (Lubricant)

Schroeder Product: TDS-A

Results

By removing the water from the PAO fluid, the customer was able to save \$20 per gallon x 350 gallons = \$7,000.

They were able to pay back their investment in just 2 clean-up processes.

Additional Benefits

- The TDS-A uses a **Positive Pressure (air flow) system** where water from the fluid is transferred (mass transfer) to the outside air and **not on unit or on floor**. There is no disposal of water needed.
- **High dewatering rates** and **efficient particulate removal** (Beta > 1,000) in one system
- **Easy controls** – Start / Stop mode, no setup / programming required!
- For larger totes or quicker water removal, the Triton-E Dehydration Station (TDS-E) with 15 gpm is available. The TDS-E applies the same Positive Pressure principal for water removal
- **Minimal Maintenance** required (no Vacuum Pump to service)

Schroeder
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