

Schroeder Provides Early Warning System and Monitoring to Large Auto Manufacturer

Background

A large auto manufacturer in the Southeast produces 300,000 cars per year. Two large Multi-Stage Presses produce all of the exterior panels for the automobiles. The hydraulic systems for the presses have a system volume of approximately 1,200 gallons of oil and the circuits are kept cool by large water to oil heat exchangers.

Problem

A recent heat exchanger failure caused one of the presses to become contaminated with water. The decision was made to drain the reservoir of the contaminated fluid and refill with new fluid at a cost of approximately \$7,200. The reservoir volume is only 800 gallons of the total system volume, so once the system was restarted the new fluid was quickly contaminated by the residual fluid left in the plumbing and press cylinders. A dewatering unit was brought in to remove the moisture from the system costing thousands of dollars more in rental charges.

Solution

The local Schroeder Industries Distributor and a Schroeder representative made a visit to review the situation. A Schroeder TestMate® Contamination Monitor (TCM-FC) with a TestMate® Water Sensor with Digital Display (TWS-D) was recommended and quoted to the customer by the Distributor.

Specifications

Type of Machinery: Multi-Stage Presses

Fluid Issue: Water In Oil

Schroeder Product: TCM-FC, TWS-D

Reservoir Size: 800 Gallons

Results

The TestMate® Contamination Monitor (TCM-FC) will supply the maintenance personnel with real time oil cleanliness information and the TestMate® Water Sensor (TWS-D) will give the maintenance personnel an early warning of a heat exchanger leak, which in return will save thousands of dollars in downtime, fluid replacement costs and dehydration unit rental charges.



TCM-FC-W

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