

# SCHROEDER INDUSTRIES PROVIDES WATER REMOVAL SOLUTION FROM EXCAVATOR

## 1 BACKGROUND

Schroeder Industries and Distribution worked together to build a Triton-E to reside in Western Canada to promote Schroeder Products. The first rental of the Triton-E was to help a construction and forestry company remove water from an excavator.



## 2 PROBLEM

A new excavator was delivered to a client. The client attached a contaminated tool which contaminated the entire hydraulic system components. After changing the oil twice, the water levels in the oil were still above 1100 ppm (0.1% water). As the outer components and hoses were filled with the contaminated oil, the reservoir continued to become contaminated, which contaminated the entire system.

## 3 SOLUTION

Schroeder Industries' Triton-E dehydrator was used to clean and dry the reservoir, while the dehydrator was operating, the excavators boom and attached tools were periodically operated. This allowed the contaminated fluid in the components circulate through the system and be removed by the Triton-E dehydrator. The final cycle was completed with the Triton-E and the excavator running at the same time to help slowly move fluid in and out of the reservoirs. The Triton-E was able to reduce saturation levels to 26% after 12 hours operation.

**Customer:** Construction and Forestry Company

**Fluids Addressed:** AW46

**Schroeder Product:** Triton-E Dewatering Unit



## 4 RESULTS

- Water content started at 0.36% (3600 ppm) after only 300 hours on this brand new excavator. Particle count ISO 22/21/16
- Oil reservoir volume was changed out twice (320 liters), water content reduced to 0.11% (1100 ppm)
- Dehydrator ran intermittently for 12 hours to reduce water content to only 0.04% (400 ppm). Final particle count is ISO 20/15/11
- Regular repair hours to flush and fill this excavator is approximately 60 to 70 hours at \$178/hr plus oil and shop supplies equals \$14,000.00
- The dehydrator rental including labour to set-up and monitor equals 12 hours at \$178/hr + \$2,300 rental equals \$4,430.00, no extra oil required

