

# PH<sub>2</sub>OENIX™ MEMBRANE PURIFIER IMPACT STORIES

## PAPER PLANT KNOTTER HYDRAULIC SYSTEM PHOENIX AQUATREX MMS MOISTURE MONITORING SYSTEM

A paper plant was having intermittent water ingress into its 30-gallon knotter hydraulic reservoir with Mobil 32 weight hydraulic oil from cooler leaks.

A PHoenix™ 1 gpm membrane oil dehydrator with Aquatrex (MMS) Moisture Monitoring System was installed to track performance. Water levels were found to have increased to above 1.3% and iso cleanliness codes to 19/16/14.

After 1 month the PHoenix™ had reduced the water below 40% saturation or approximately 60 ppm. At this point the Aquatrex Moisture Monitoring system was programmed to automatically shut the water removal vacuum pump off which it did. After 20 more days without water removal water increased on the reservoir back to above 70% saturation where the Aquatrex (MMS) Moisture Monitoring System was programmed to turn the water removal vacuum pump back on. After less than 50 hrs. water was reduced back below 40% saturation.

Results can be seen in the graph in figure 2 below .



Figure 1: Paper Plant Knotter Hydraulics

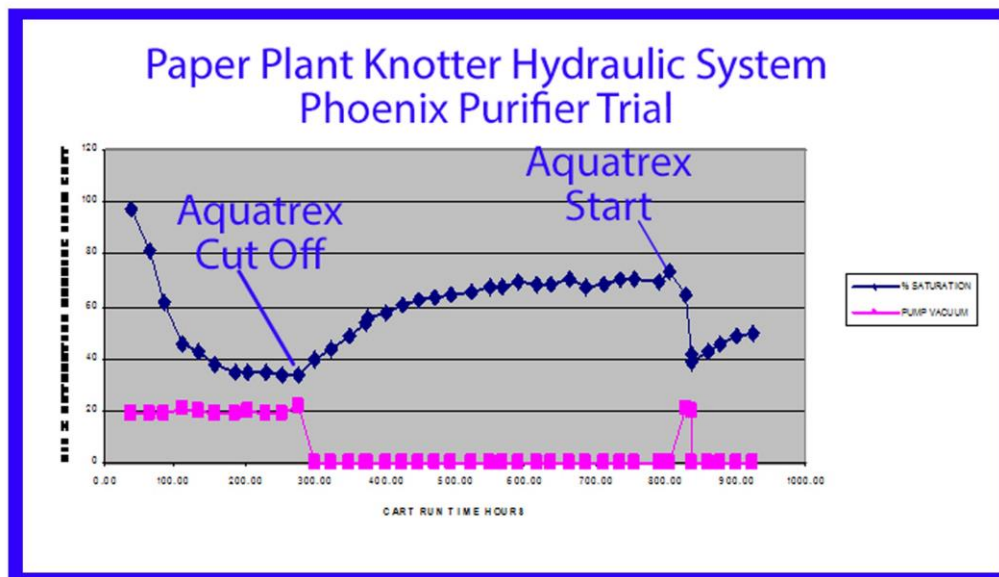


Figure 2: Paper Plant Knotter Hydraulics Results