

CRANE HYDRAULIC OIL DEHYDRATION

THE CUSTOMER

A construction equipment leasing company.

THE PROBLEM

The crane hydraulic oil was contaminated with water well above its saturation, giving the oil a milky color. Water was severely affecting crane performance. In winter months water was freezing in hydraulic lines.



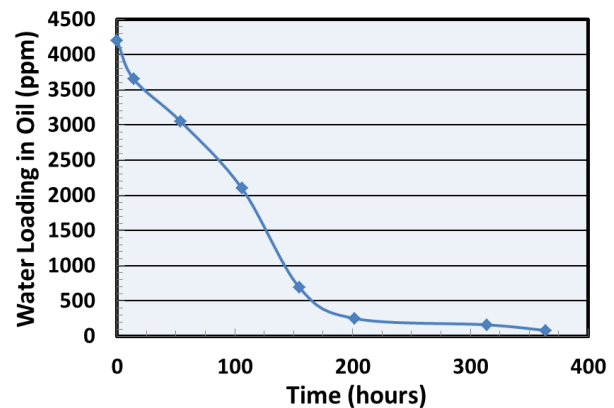
Dehydration system with CMS membrane and crane

THE CMS SOLUTION

A stand-alone pilot system was sent out and allowed to run for roughly 2 weeks. The water loading in the 50 gallon reservoir was periodically measured using the calcium hydride method.

THE OUTCOME

By the end of the 2 week period the water loading was reduced to 40 ppm or about 25% of saturation. Customer was not forced to change out oil in reservoir.



Hydraulic oil before and after dehydration