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Water in Hydraulic oil

Cloudy oil many a time can be found in hydraulic oil systems. The visible cloudiness is visual proof of the evidence of water whether it be a few hundred ppm or several thousands of ppm. In many cases, smaller contamination levels are not visible to the eye. Oil sampling and lab tests can bring meaningful results and is a recommended practice but it is even better to continually monitor with an online instrument to make sure you have not missed anything in between sample periods which in many cases are very long.

The EASZ-1 is an online water ppm or percentage water in hydraulic oil monitor. The instrument is not limited only to hydraulic oil but can also be used or retrofitted into lube oil, heavy oil and even fuel. An intrinsic safe version is also now available for explosive atmospheres present when measuring water in hydrocarbons.



Typical installation in lubrication system.

Water in hydraulic fluid can be detrimental by the fact that it corrodes surfaces, increases the chances of air build up as well as degrading factor in the hydraulic oil's lubricating abilities. A good practice may be to use vacuum distillation, headspace dehumidifiers and of course filters but if damage is possible due to small or larger amounts of dissolved, free or emulsified oil, a better practice would be to monitor the condition of the hydraulic oil online with the EASZ-1 water in hydraulic oil sensor.

Online monitoring of oil enables operators to know when a change of oil is required or when something is amiss in the hydraulic system. There are a myriad of designs of water removal systems from oil and each person may not be in total agreement as to the effectiveness of one system over another. Since the EASZ-1 is continually monitoring the water in the hydraulic oil, the effectiveness of the water removal system can be monitored or simply the operator will have a better idea of when a filter change is necessary.

For more information on the EASZ-1 water in hydraulic oil monitor, please contact your local EESIFLO representative office. The details can be found on <http://www.eesiflo.com>