



REFERENCE STUDY ENERGY



CLIENT

Slitevind AB (Tingståde), one of the oldest wind power companies in Sweden (start 1992), with a production of 157 MW / year. The company's projected production of energy is 4800 MW/ year within five years.

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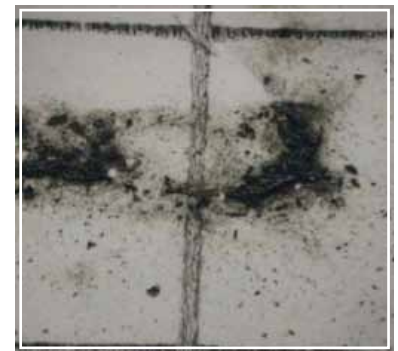
SYSTEM

Vestas V66 windmill

CHALLENGE

AN INSTALLED 3 MICRON OIL FILTER SYSTEM WAS NOT SUFFICIENT

Problems arose with the oil for the gearbox and hydraulic system. Oil test sent to Castrol laboratory showed unsatisfying result. There was contamination in the oil that threatened to lower the lifespan of the machine and increase the probability of stoppage, also the water level in the oil was at a level where the bearing where in risk of reducing its life span in to halve of normal. Operational reliability is very important because of its inaccessible nature that makes it expensive to repair.



SOLUTION

CHANGE THE EXISTING 3 MICRON OFFLINE FILTER TO EF2115V SYSTEM

Slitevind decided to test depth filtration, down to 0.1 micron, on the gearbox oil and see if they could also reduce the amount of water in the oil at the same time. Testing was performed with a system from Europafilter for 3 month.



RESULT

EXCEPTIONAL CLEAN LUBRICATION OIL

The oil test from Castrol showed that the contamination had been reduced to almost one fifth of the original result and was actually cleaner than new oil that they tested as a reference. The water levels had also dropped to under the recommended 150ppm mark.

