



GEARBOX OIL CHANGE

Why is gearbox oil change important?

Because lubricating oil is the lifeblood of the wind turbine's gearbox. In wind turbines, the lubricant is subjected to extreme temperatures and varying load weights and contamination. As performance deteriorates under these conditions oil analysis becomes essential.

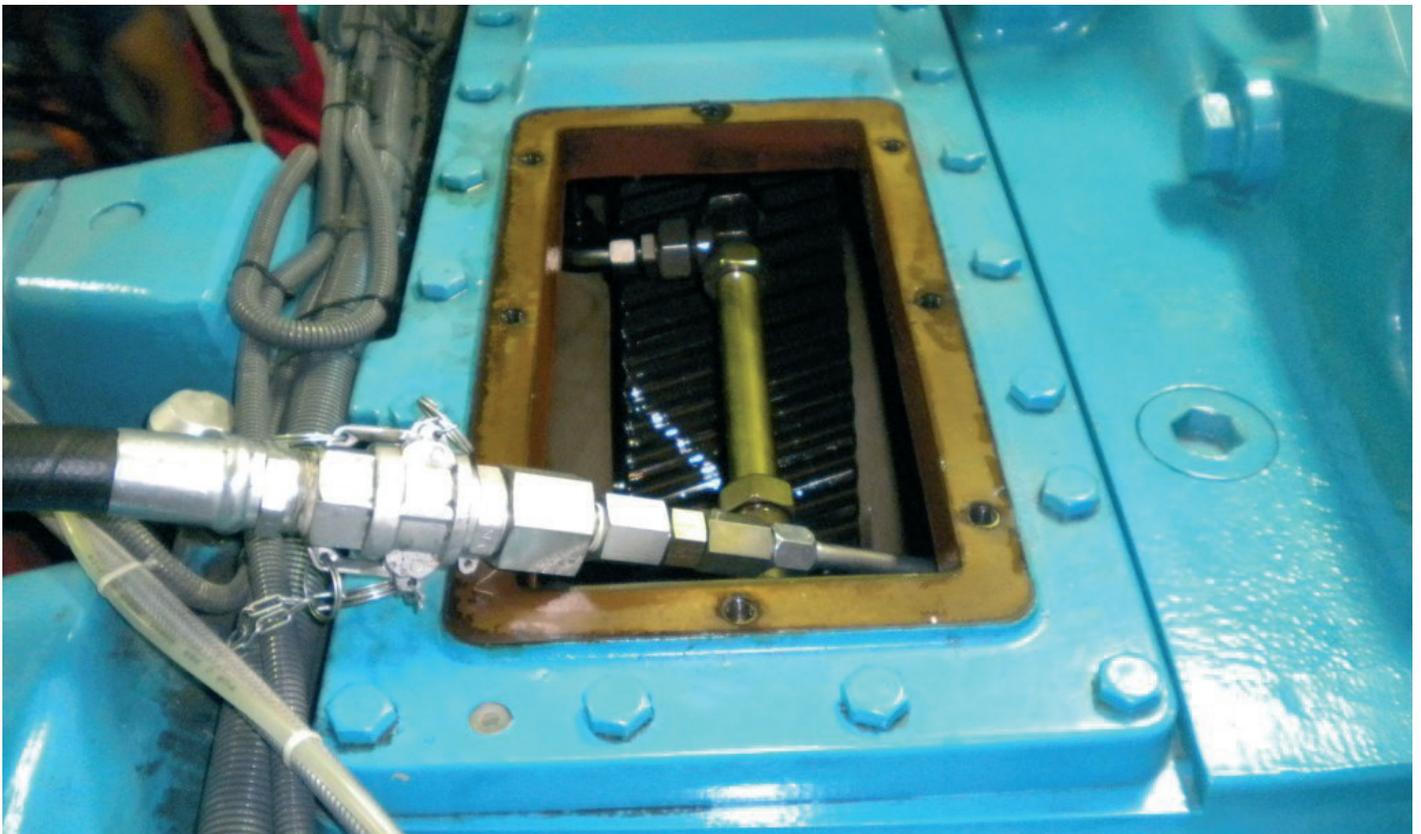
Why ask for an oil change?

Because the main gearbox drives the generator marking it a critical piece of equipment and thus oil quality is very important to keeping the gearbox in good operation condition.

What are the key components of an oil change?

Viscosity, iron wear, total acid number, water contamination and oil cleanliness – all play an important role in keeping the oil in good condition and need to be kept under continuous monitoring.

When samples prove that the oil has an increased usability and it is no longer safe to the gearbox operation then oil replacing needs to be performed.





How is an oil change performed?

Pre-changeover preparation is initially required. Used oil samples are taken and visual inspection of the gearbox, gears, reservoir, filter and filter housing is performed in order to determine the amount of contamination or residue exiting in the system.

Following this preparation the gearbox and gear drives are cleaned and drainage of used oil is performed. Oil flushing on the gears, bearings and inside walls of the gearbox ensures a better removal of the residual used oil. Fresh oil is then filled in the gearbox and new oil filter and dessicant breather are installed. New oil fill sample is to be taken as the fresh oil exists the fill hose into the gearbox.

Finally, the oil is topped off to the gearbox manufacturer's recommended operating level and a final fill oil sample is taken after 30 minutes operation minimum.

What is delivered after the oil change is done?

Professional Oil Change Reports containing detailed information and parameters of the wind turbine along with activity checklist.

Why choose us?

As a relatively new activity in our provided maintenance services for wind turbines, oil change started in 2014.

Nevertheless, a zero complaint record means a lot if we consider the 8 wind turbines so far for which oil change was performed by our technicians.

A continuously growing experience in this field of operation and the usage of high end equipment and accessories adds to the safety and professional climate in which gearbox oil changes are performed.

