



# Case Study

## Eco-friendly Grease For Wind Turbine Gearboxes

### Application

IKV Lubricants has been a leader in the field of high performance lubricants for many years and has met the increasing demands for tribological products that meet the requirements of the industries OEM's.



Making good environmental lubricant choices should not have to compromise equipment reliability or functionality. In fact, appropriate environmental decisions can be part of a cost-effective strategy with IKV products. IKV Group is committed to leading the industry by supplying environmentally friendly and biodegradable lubricants hence minimising the impact of its activities on the environment. Our customers require an environmentally friendly biodegradable grease for use on wind turbine gear boxes.

### Application Requirement

- Bio-degradability
- Good resistance to extreme pressure
- Excellent anti-wear properties
- High resistance to corrosion
- Anti-foaming & anti-oxidant properties

### ABOUT IKV-TRIBIOGEAR 150 / 220 and 460

**IKV-TRIBIOGEAR** range name is based on TRI for tribology, the study of friction, wear and lubrication; the science of interacting surfaces in relative motion. BIO for biodegradability, and GEAR; where the product was developed for use.

**IKV-TRIBIOGEAR 220** is a synthetic ester environmentally friendly biodegradable oil with extreme pressure additives.

**IKV-TRIBIOGEAR 220** is formulated according to ecological criteria defined by the European Commission (Directive 2005/360/EC).

**IKV-TRIBIOGEAR 220** has superior anti-wear, anti-corrosion, anti-foam and anti-oxidant properties. It reduces friction and wear of gearboxes, especially at low and high temperatures.

**IKV-TRIBIOGEAR 220** is appropriate whenever extreme oil pressure and long term use is necessary. It is suitable for all reducing loaded, toothed, cylindrical, helical, and hypoid bevel, wheel and worm gears.

**IKV-TRIBIOGEAR 220** is miscible with mineral oils and oil type polyalphaolefin. To maintain its biodegradability properties, a prior rinsing of the installation is however recommended.

Many of our products are FLENDER manufacturer approved.

Contact us for lubricants for wind turbine hydraulic units, disc brakes, pitch regulators, yaw gear motors, generator bearings, yaw and pitch gears, yaw and pitch bearings.

### Other Applications Include

- Food processing industry
- Beverage packaging