Mobilgear SHC XMP 320 helps U.S. wind farm save US $176,000 annually*

Flender turbine gear drives | Wind farm | West Virginia, United States

**Situation**
A West Virginia–based wind farm operates 44 NEG MICON 1.5 MW wind turbines equipped with Flender gearboxes, which are lubricated with Mobilgear SHC™ XMP 320 synthetic gear oil. Operating in a four-seasons climate with rain, snow and temperatures ranging from -10°F (-12°C) to 100°F (37°C), presents significant lubrication challenges. Supported by consistent filter changes and routine oil analysis, Mobilgear SHC XMP 320 has performed well in these turbines for an average of six years. The wind farm’s maintenance team works closely with ExxonMobil engineers to optimize lubricant performance and equipment reliability.

**Benefit**
Mobilgear SCH XMP 320 gear oil and Mobil Serv Lubricant Analysis have helped this wind farm reduce oil changes, enhance component life and increase equipment availability to generate an estimated savings of US $176,000 annually.

**Impact**
Through the continued use of Mobilgear SHC XMP 320 and the implementation of Mobil Serv Oil Analysis, the company reports extending oil drain intervals to more than 49K hours, over twice the industry average, while maintaining excellent gear condition. These performance benefits have helped deliver a company-estimated annual total cost of ownership savings of US $176,000.

**Recommendation**
ExxonMobil engineers recommended the continued use of Mobilgear SHC XMP 320 gear oil and implementing Mobil Serv Lubricant Analysis in the wind turbine gearboxes. This enables the wind farm to monitor both the lubricant and equipment condition, as well as establish proper lubricant drain intervals based on oil analysis findings.

Oil life of more than **45K** hours

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*This Proof of Performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

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