

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



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## 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.

### Recommendation

ExxonMobil engineers recommended the continued use of **Mobilgear SHC XMP 320** gear oil and implementing **Mobil Serv<sup>SM</sup> 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.

### 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.

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

Industrial  
Lubricants



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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.

\*\*Visit [mobilindustrial.com](http://mobilindustrial.com) to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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