

Mobil SHC™ 630 synthetic gear oil helps chemical plant enhance equipment reliability and reduce energy consumption*



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Kobe Steel, Ltd. extruder gearbox | Honam Petrochemical Corporation | Daesan, South

Situation

Honam Petrochemical Corporation produces LLDPE (Linear Low Density Polyethylene) and operates two large 4.2 MW extruders that run three shifts per day, seven days a week. Lubricated with a competitive ISO VG 220 grade mineral gear oil, the extruder gearboxes were required to run on rigorous production schedules. In an effort to improve plant productivity, the company approached ExxonMobil to identify an alternative lubricant solution capable of enhancing equipment reliability.

Recommendation

ExxonMobil engineers recommended the company switch its extruder gearboxes to **Mobil SHC™ 630** synthetic gear oil. Formulated with high VI base fluids, a proprietary additive system and low traction coefficient, **Mobil SHC 630** is designed to resist viscosity thinning and reduce friction to protect gears operating in severe conditions. Additionally, ExxonMobil engineers recommended implementing routine **Mobil ServSM Lubricant Analysis** to monitor equipment and oil condition.

Impact

After transitioning to **Mobil SHC 630** synthetic gear oil and implementing routine **Mobil Serv Lubricant Analysis**, the company was able to run its extruder gearboxes without experiencing unscheduled downtime. This enhanced performance helped the company reduce its power consumption, ultimately helping reduce overall operating costs.

Benefit

Honam Petrochemical Corporation reports that **Mobil SHC 630** has helped enhance the reliability of its extruder gearboxes, generating company-estimated annual savings of US \$60,000.

Power consumption
reduced by
4.8%

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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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