

Mobil ServSM Lubricant Analysis helps extend oil drain intervals and reduce operational costs*



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Komatsu PC80000 electric shovel | Coal mining company | Cesar, Colombia

Situation

A Colombian coal mining company operates Komatsu PC80000 electric shovels lubricated with **MobilgearTM 600 XP 220** gear oil, and the company was conducting oil drain intervals every 2,000 hours. However, given the lubricant's outstanding performance capabilities, the company approached ExxonMobil to determine the possibility of extending lubricant life beyond its existing oil drain intervals.

Recommendation

ExxonMobil engineers recommended the company implement routine **Mobil ServSM Lubricant Analysis** to monitor the condition of the shovel's swingboxes as well as the in-service lubricant. By monitoring equipment and lubricant condition, the company secured performance insights to develop an optimal drain interval recommendation.

Impact

By implementing **Mobil Serv Lubricant Analysis**, the company was able to safely extend **Mobilgear 600 XP 220** oil drain intervals from 2,000 hours to 3,500 hours, which reduced used oil volumes by more than 1,150 gallons (4,353 liters) per year. This change also reduced maintenance workloads and increased equipment availability.

Benefit

The company reports that **Mobil Serv Lubricant Analysis** enabled the company to safely extend oil drain intervals while using **Mobilgear 600 XP 220** gear oil, which generated company-estimated savings of US \$518,268.

Company-estimated
annual savings of
US \$518K

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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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