

Mobil ServSM Technical team helps mining company improve haul truck availability and lower operating costs



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CAT 793 C/D/F production haul trucks | Mining company | Minnesota, United States

Situation

A mining company in Minnesota operates 48 CAT 793 production haul trucks. The mine was interested in improving haul truck availability by 2 percent as well as lowering fuel and operating costs. The **Mobil ServSM Technical** team program was recommended by ExxonMobil engineers to the mining company to optimize its preventative maintenance strategy and conduct a fuel efficiency demonstration study.

Recommendation

As part of ExxonMobil's **Planned Technical Services** program, the **Mobil ServSM Technical** team analyzed historical data from the past three years, current preventative maintenance strategies as well as oil and filter analysis data. The **Mobil Serv Technical** team then recommended a change in preventative maintenance strategies, filtration technology improvements and that the company switch to **Mobil DelvacTM 1 FDAO** synthetic gear oil. A fuel efficiency demonstration was also recommended to validate the fuel economy improvements.

Impact

Since implementing the preventative maintenance strategy recommendations and upgrading to **Mobil Delvac 1 FDAO** synthetic gear oil in the drive train of its CAT haul trucks, the mining company confirms that haul truck availability improved by 2 percent and fuel economy by 2.4 percent. As a result of these benefits, the company reports reducing consumption by 30 000 litres and tripling its oil drain intervals.

Benefit

The company reports that since implementing recommendations made by the **Mobil Serv Technical** team, the mine has improved haul truck availability by 2 percent and fuel efficiency by 2.4 percent, which helped reduce oil consumption and extend oil drain intervals.

Estimated annual savings of
CAD \$962K

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POP 2018-017