

Proof of Performance

Mobil Delvac 1 Gear Oil 75W-90 and Mobil Engineering Services saved customer US\$ 34.6K each year

Gearbox / FLENDER ASEF380

Beijing Power Vehicle Carriage Segment

Beijing City, PRC

Mobil Customer Since 2009

Benefit

Savings of US\$34.6K were achieved each year by prolonging the oil drain interval (ODI) of the traction gearbox, resulting in:

- Reduced lubricant purchasing costs
- Reduced labour costs from decreased number of oil change
- Improved productivity from longer machine uptime

Situation

There are 20 sets of CRH3 Locomotive in Beijing Power Vehicle Carriage Segment, in which FLENDER ASEF380 gearboxes were employed. They were lubricated with Mobil™ Synthetic Gear Oil 75W-90 at an ODI of 6 months (or 400,000km) based on the OEM recommendation. However, as the CRH3 Locomotive runs short distances, the customer was unsatisfied with the current ODI of 6 months as it only covered 200,000km, and hoped to extend the ODI.

Solution

Based on field investigation and discussion with customer, ExxonMobil engineer suggested a field trial run on 4 sets of gearboxes, and Mobil Lubricant Analysis program was executed for ascertain suitable ODI. Oil samples were taken at intervals of 200,000km, 300,000km, 350,000km, 400,000km. Other engineering services, such as on-site equipment inspection, temperature test and lubrication clinic, were also provided.

Impact

16 oil samples taken between May 2010 till Jan 2011 displayed good result. Mobil Delvac 1 Gear Oil 75W-90 has showed excellent performance, providing ideal protection for the FLENDER Gearbox. The ODI was doubled to 400,000km, leading to annual savings of US\$ 34.6K.

For more information on Mobil lubricants and services, please contact: ExxonMobil (China) Investment Co. Ltd.,
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For any equipment under warranty, ExxonMobil recommends following the OEM's recommendations.

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Beijing Power Vehicle Carriage Segment

