

# 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 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<sup>SM</sup> 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.



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