## **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

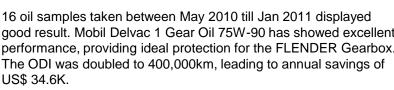
There are 20 sets of CRH3 Locomotive in Beijing Power Vehicle Carriage Segment, in which FLENDER ASEF380 gearboxes were employed. They were lubricated with Mobil™ Synthetic Gear Oil 75W-90 at an ODI of 6 months (or 400,000km) based on the OEM recommendation. However, as the CRH3 Locomotive runs short 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 atintervals 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**

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



Mobil



**Beijing Power Vehicle Carriage** Segment

For more information on Mobil lubricants and services, please contact: ExxonMobil (China) Investment Co. Ltd., Call free: 4008206130, Mail box PRCLubeline@exxonmobil.com Exxonmobil (China)Investment Co.Ltd Tel: +86-21-24076000

For any equipment under warranty, ExxonMobil recommends following the OEM's recommendations

