



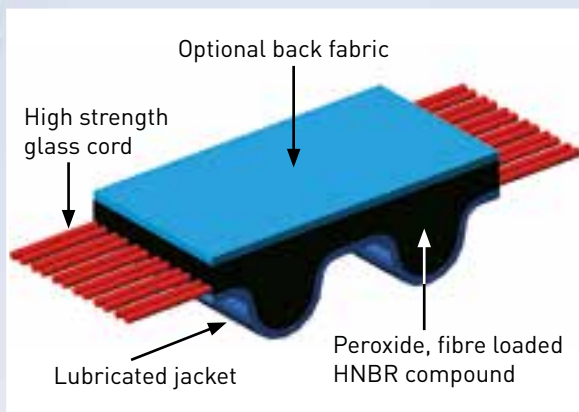
ECO™ SYNCHRONOUS BELT TECHNOLOGY

Continual evolution of engine technology has placed increased demands upon each and every engine component, including the timing drive system. Gates' latest synchronous belt platform, the ECO™ belt, has risen to this challenge; providing life of engine durability under the most extreme environmental conditions, combined with the ability to reduce package size considerably.

PRODUCT ACHIEVEMENTS

- > **Life of Engine durability** – 300,000 km +
- > **Compact Package** – minimum 20% width reduction possible in most systems, both gasoline and diesel
- > **Excellent environmental resistance** – in the most severe conditions (up to 150°C)
- > **Superior noise performance** – in tests 2-5 dB lower than chain systems
- > **Reduced friction losses** – leading to over 2% fuel economy savings compared to chain drives, and to CO₂ emission improvements

MATERIAL INNOVATION



Jacket

- > Optimised jacket to rubber ratio for **maximum tooth load capability**
- > Revolutionary **hybrid technology** available for **extreme high temperature** applications
- > Unique fabric weave design to **eliminate crack propagation**
- > Lubricated jacket for **excellent wear resistance**
- > Optional back fabric to **combat effects of misalignment**

Cord

- > **Excellent dimensional stability** given by high strength glass fibre
- > Enhanced adhesive system provides **stable interfaces at high temperatures**

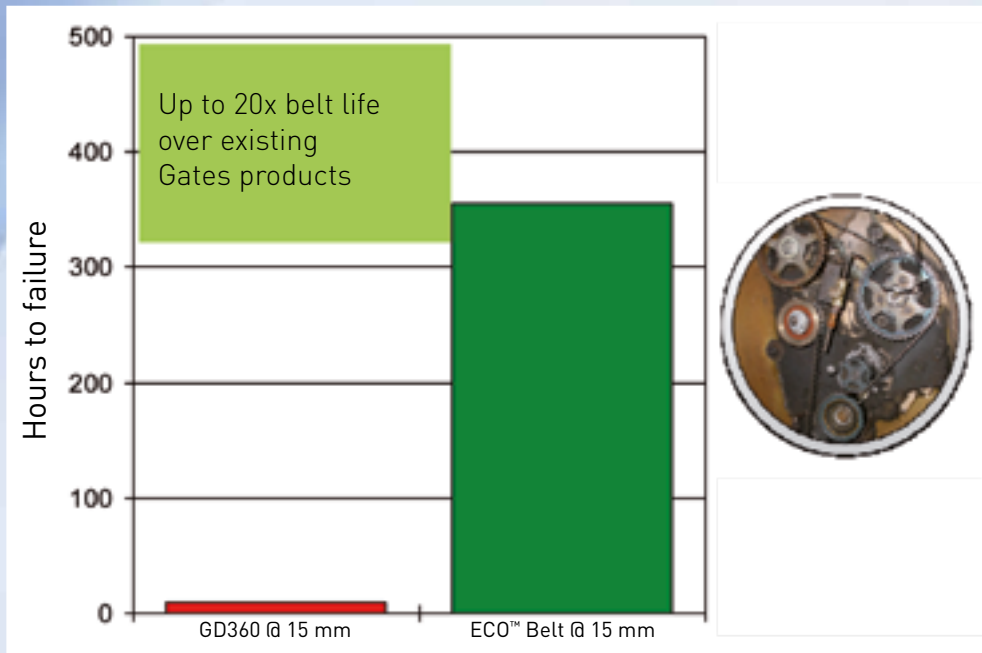
Compound

- > Formulated to dissipate heat, **reducing operating temperature and maximising belt life**
- > Fibre loaded HNBR designed for **long term ageing stability**

DURABILITY IMPROVEMENT

ECO™ belts demonstrate a huge step forward in belt durability over existing products.

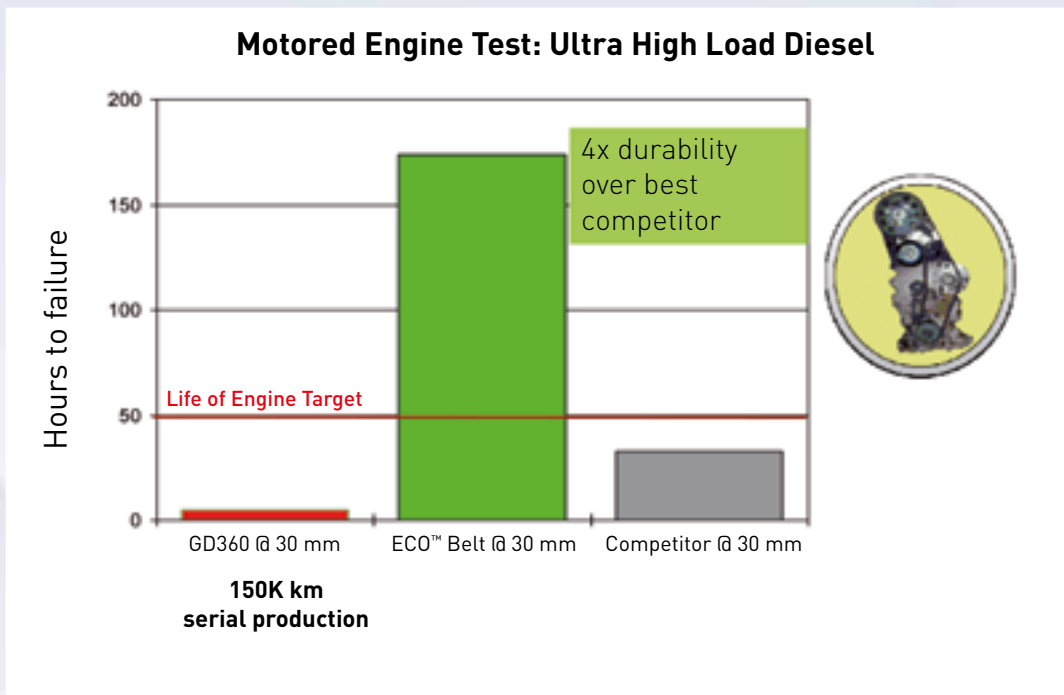
Motored Engine Test: High Load Diesel



LIFE OF ENGINE PERFORMANCE

ECO™ belts surpass life of engine requirements for even the most demanding applications, providing the opportunity to reduce belt width by minimum 20% for most diesel and gasoline applications.

Motored Engine Test: Ultra High Load Diesel



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