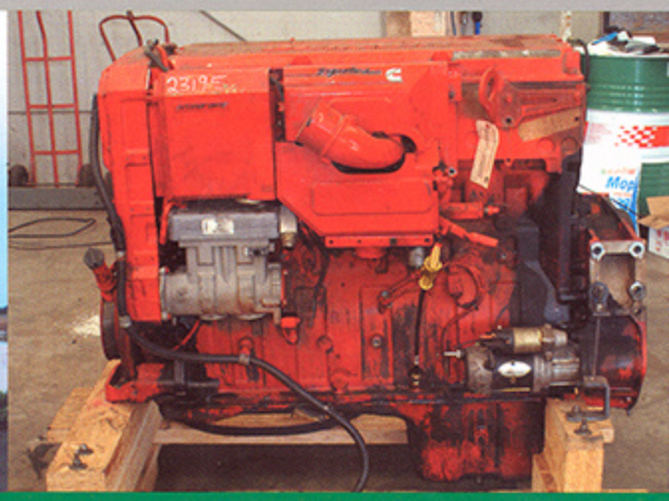
Leading Edge Oil Technology NEWS

Shaw's engine is **squeaky clean** after **1,000,000km** on **Castrol Enduron S!**

Castrol RX SUPERPLUS

See inside for details!



"The oil analysis results only proved what Castrol said - a big decrease in engine wear metals, even after the longer drains!"

Jim Backhouse
Fleet Manager
Shaw's Darwin Transport.

"When you send trucks out for long, heavy hauls up to 15,000km turnaround, you really want peace of mind that they're running at 100%."

Our fleet of 30 Kenworth prime movers haul road trains between Sydney, Perth & Darwin and single trailers via Sydney/ Dubbo/ Bourke shuttle services.

The road trains, pulling up to 115 tonnes, are powered by Cummins N14s and Signature diesels with a few Detroit Series 60s.

With such a large investment in our trucks it's **essential** to maintain them all at peak efficiency.This includes using the **best oils** available that not only provide excellent **wear protection,** but also allows us to **extend our drain intervals** – especially under the **extreme** conditions that most of our vehicles face operating on a 24/7 work schedule.

Proof of the **exceptional** performance of **Castrol Enduron S** is evidenced in one of our Cummins Signature 580 engines recently put into retirement after a little **over 1,000,000km** of heavy duty operation. In actual fact, the engine had worked at maximum capacity for 49.5% of its life hauling double trailers and triple road trains. It used 745,657 litres of fuel averaging 1.3km/litre.

Continued Back page...

Castrol **Enduron S**

From page 1

For nearly 400,000km of its life, we used Castrol RX Super and set drain periods at 20,000km. However, when we changed over to **Castrol Enduron S** we very comfortably standardised the oil drain intervals at **40,000km**.

Our operating schedule has extended from 8,500km round trips to an average of 13,000km. Castrol Enduron S has allowed us to almost **double** both our **operating schedule** and **oil drains** without compromising engine durability.

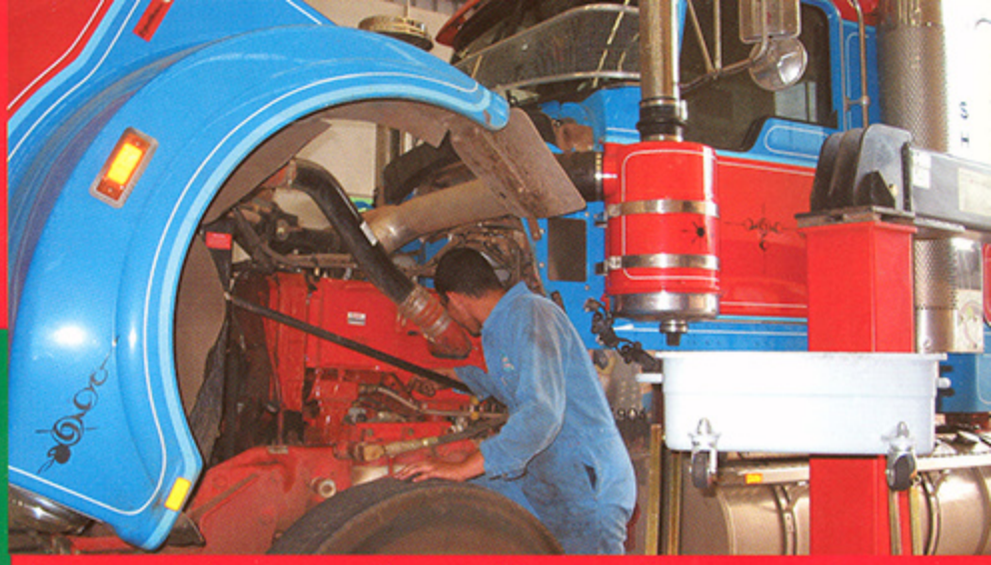
However, the real surprise came when Castrol stripped the engine right down for closer examination. In short, the engine was **extremely clean with no sludge** visible anywhere and very **low levels of wear**.

In fact, comments were made during the dismantling that it was not unusual to see significantly more wear and greater amounts of deposits/sludge in similar engines having only done around 300,000km - a far cry from a little over 1,000,000km of hard hauling that this Signature actually completed.

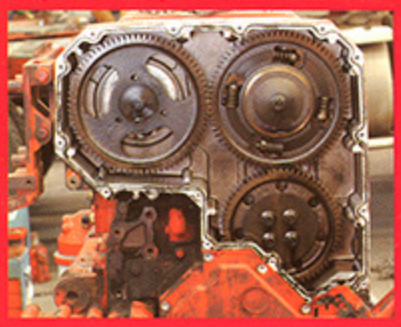
Oil analysis monitoring showed that Enduron S extends engine life by reducing iron wear rates typically by 50%

For further information and Technical Data Sheets, please contact Castrol today.

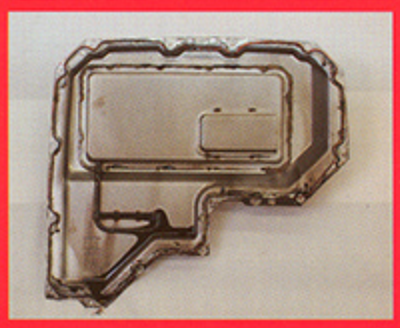
Technical Helpline: 1300 557 998
Customer Orders: 1300 554 890
www.castrol.com.au



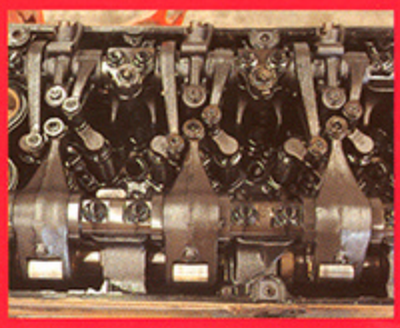
These photos **show how the components looked after a hard 1,000,000km - squeaky clean!**



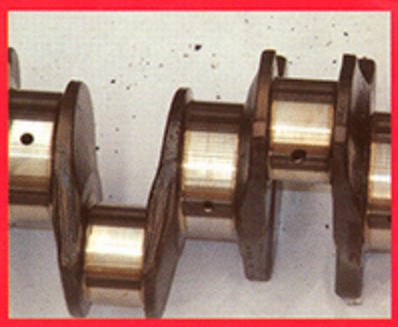
Timing gear is very clean with very little wear. Usually contains sludge, however, it's non-existent after 1,000,000km plus!



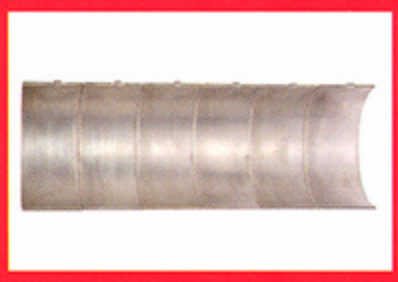
Timing gear cover usually contains sludge, however it clearly confirms cleanliness of the oil and the engine.



Overall valve deck is very clean including cam shaft and valves.



Close-up of crank shaft confirms cleanliness and minimal wear.



Big-end top bearings are in good condition with only light to medium scoring – expected from an engine having travelled about 300,000km – not 1,000,000km!