

Delo® Testimonial: Freestate Petroleum Distributors

Achieves 1,000,000+ kilometres in a Freightliner® Truck using Delo® family of products.



Freestate Petroleum Transportation has been hauling petroleum products for over 20 years in the South African market and has grown to over 40 trucks in their fleet. They operate under severe conditions in the South African market with Freightliner trucks and Cummins ISX 500 engines burning 500ppm sulphur diesel fuel under heavy loads of 56,000kg. They recently achieved 1,000,000+ kilometres of total mileage in one of their trucks and wanted to see how the Delo® family of products protected the engine since its first use over 8 years ago.

Caltex and Freestate Petroleum personnel agreed to conduct an engine teardown and inspection of the Cummins ISX 500 engine in Bloemfontein, South Africa at the local OE Dealer. The engine burns diesel with sulphur content up to 500 parts per million and uses Caltex Delo® 400 Multigrade SAE 15W-40 and Delo® XLC Extended Life Coolant.



Jean Snyman

“We’re very excited about the performance of this truck. It was the first truck in our fleet that we acquired about 8 years back and it’s done about a million kilometres and on the performance of this truck we acquired additional trucks. All our trucks run on Delo® 400 and their family of products,” says Jean Snyman, owner of Freestate Petroleum Distributors.



Pistons

After 1 million kilometres, pistons are in good condition with minimal deposit build-up on crown lands or ring lands. Rings can freely move providing good oil consumption control.



Camshafts

Camshafts are in very good condition with no evidence of micro-pitting or adhesive wear visible.



Top Deck

Very clean and shows no visible deposit or sludge build-up indicating excellent dispersant protection offered by Delo® 400.

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The final inspection overall showed a clean engine with minimal deposits and wear on the key engine components. The pistons showed minimal deposit build-up on the crown and top ring land zone. The camshaft lobes showed excellent wear protection and no visible wear scars on rollers or rocker arms.

Bearings were also in very good shape with only small amounts of overlay removal – excellent for an engine with this many kilometres at high load.

“It’s hard to believe that this has been a vehicle that has gone over a million

kilometres with loads up to 56,000kg. There is minimal removal of overlay and just a couple of scratches where debris has gotten into the oil. This is reflective of the performance of Delo® 400,” says John Green – Caltex Technical Specialist.



Johan Liebenberg

Delo® XLC Extended Life Coolant also helps protect the engine cooling system on this truck. Inspection of the cooling system revealed that Delo® XLC prevented cavitation pitting on the liners and water pump impeller. The engine cooling system showed no signs of deposit build-up or corrosion on key metal parts.

“We’ve seen the condition of the million kilometres engine only running on Delo® 400 and Delo® XLC Extended Life Coolant. The way they protected the engine, it would be hard not to recommend these products to any other customer,” says Johan Liebenberg, Sales Manager OE Dealer.



CALTEX



Connecting Rod Bearings

Very good shape showing minimal overlay removal and no copper underlay showing.



Piston Liners Exteriors

Show no liner pitting or harmful scale build-up using Delo® XLC after 1 million kilometres.

To learn how Delo’s family of products can help you go further, visit www.caltexdelo.co.za

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