

# Delo® Testimonial: HJ Linde & Sons



**Achieves 16 000+ hours of engine durability in a New Holland Tractor with Caltex Delo® 400 Multigrade SAE 15W-40.**



Hansie Linde

HJ Linde & Sons operates a large potato farm located outside of Vryburg, South Africa. They have been in the farming business since 1856 and used Delo® 400 heavy-duty engine oil in their tractors for over 30 years. In 2001, Hansie Linde, owner of HJ Linde & Sons, purchased a new New Holland 8066 tractor with an Iveco 4045 diesel engine and started running it on Delo® 400 Multigrade SAE 15W-40 engine oil.

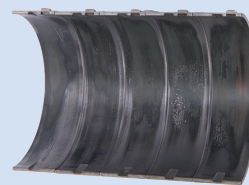
**"I have been farming here now for 41 years. My dad has been farming before me for**

**50-something years. His dad was farming here. They started in 1856. I've had about 25 New Holland tractors and some of them are over 30 years old. For 3 generations we've counted on Caltex and Delo® 400 to protect our tractors," says Hansie Linde, Owner HJ Linde & Sons.**



## Pistons

Iveco diesel engine pistons show minimal deposit formation on piston lands and ring grooves, allowing for excellent oil consumption control.



## Main Bearings

Show minimal overlay removal even after 16 000 hours of operation in hot and dusty conditions.



Boy du Preez

After 16 000 hours of operation running 500ppm sulphur diesel fuel at 250-hour oil drains with no major issues, Hansie, the Local OE Dealer, and the Caltex team wanted to inspect the engine performance, since it had achieved 6 000 - 8 000 more hours than the engine would typically last before a rebuild is required.

**"It is the standard to overhaul an Iveco engine between 8 000 and 10 000 hours on a New Holland. When we heard of a tractor that was still running after 16,000 hours, we were very surprised and very proud," says Boy du Preez, Suidwes Co-op's Technical Service Manager.**

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One of the technicians from Suidwes Co-op, E. Nel, was also able to provide comment on the engine condition based on his wide experience in tearing down these types of engines for other customers.



**"This camshaft is very smooth with no scrapes, gouges, or abrasive wear. Sometimes we have engines with 6 000-7 000 hours with a lot more wear, scrapes and damage.**



## Camshafts

There is no visible abrasion or micro-pitting wear on the camshaft or lobes. The camshaft could be reused by the customer due to excellent wear protection provided by Delo® 400 Multigrade SAE 15W-40.

**Additionally, the balancer in the bottom half of the engine most of the time will show damage or broken teeth. However, these gears look particularly good with no visible wear or broken teeth at all. It all looks in very good shape,"** says Nel.

**"Having inspected the critical components of this diesel engine, we can state with confidence that the combination of the maintenance practices of HJ Linde & Sons and the performance of Caltex Delo® 400 Multigrade SAE 15W-40 has enabled the customer to maximise engine durability and reliability,"** says John Green - Caltex Technical Specialist.



J.P. Potgieter



John Green

**"This really reinforces for the South African farming community that investing in premium Delo® 400 engine oil can provide a total cost of operation savings beyond the differences in price with lower quality oils. This farmer was able to almost double his engine life to 16 000 hours, saving him R50,000 in additional rebuild costs over the life of the equipment. This more than offsets any price differences between Caltex Delo® 400 and lower quality oils,"** says J.P. Potgieter, Technical Manager, Star Lubricant Distributors.

**"The tractors are good but it's the oil helping us get the longer engine life. I can't count on the rain, but I can count on Delo® 400 Multigrade SAE 15W-40. Delo® helps my tractors go further,"** says Linde.

To learn how Delo's family of products can help you go further, visit [www.caltexdelo.co.za](http://www.caltexdelo.co.za)

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