When your heavy-duty agriculture vehicles and equipment are working reliably, your business is driving production and profits. At Caltex, our goal is to optimise your diesel engine performance to help minimise operating costs and maximise engine reliability.

As your lubrication partner, we strive to keep your comprehensive fleet of equipment running reliably, help minimise operating costs and maximise performance. This includes diesel engines, transmissions, final drives, hydraulic systems, pins and bushings, and generators.

We understand the challenges facing agriculture vehicles, equipment, components and sites today:

- New engine technology development
- Multiple fuels (diesel, biodiesel, dual-fuel and natural gas)
- Extending oil and coolant-drain intervals
- Multiple critical component lubrication requirements
- Consolidation of lubricant products
- High parts maintenance and replacement cost
- Harsh operating conditions

Count on Caltex’s industry experience, technology leadership and the Delo® family of premium products to help you stay ahead of these challenges and protect and maximise the life of your key equipment and vehicles.

Reliability & Durability Are Our Priority.

Caltex lubricants stand for one thing above all else: reliability. Properly lubricating the inside of a heavy-duty diesel engine requires more than just creating a protective film. Delo® heavy-duty engine oils provide excellent soot dispersancy, wear protection and sludge control to guard against loss of engine life and help reduce fuel and oil consumption. Additionally, the Delo® family of products delivers integrity and performance as proven by various bench testing results. Delo’s industry-leading lubricants have logged countless hours providing superb protection to diesel engine parts and key equipment components so your agriculture equipment can go further.

The Delo® difference?

ISOSYN® Technology. It helps deliver performance, protection, and durability to help maximise equipment reliability.

Caltex uses ISOSYN® Technology to formulate its top-tier Delo® products. Premium base oils with high-performance additives, combined with our formulation expertise, provide superb protection for diesel engine parts – at an outstanding value.

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Delo® with ISOSYN® helps:

- Extend service protection
- Maximise engine durability and life
- Minimise operating costs

Superb Parts Protection

Delo® with ISOSYN® Technology protects critical engine parts to help maximise engine and equipment life.
We can’t afford downtime in our farming operations. In today’s competitive environment, 1 day of lost harvesting can cost us up to $25,000 in reduced profitability.

Mike Matuska
Supervisor
Zuckerman Family Farms, Inc.

Delo® 400 Multigrade SAE 15W-40 is a world-class diesel engine oil formulated to provide outstanding long-drain performance, superb engine life protection and excellent everyday performance in all types of operations including stop-and-go, long haul, and high-stress conditions.

Delo® 400 Multigrade SAE 15W-40 has been specifically formulated to provide superb protection and performance in harsh operating conditions, regardless of the type of diesel engine (older or new) and alternative fuel types. Its robust formulation is designed to operate in a wide range of conditions and climatic areas helping to minimise the number of diesel engine oils required by customers.

Delo® 400 Multigrade SAE 15W-40 exceeds most industry and engine manufacturers’ performance requirements:

- API CI-4 PLUS, CI-4, CH-4/ SL
- ACEA E7
- Caterpillar ECF-2, ECF-1-a
- Cummins CES 20076, 20077, 20078
- Daimler MB-Approval 228.3
- Detroit Diesel DDC Power Guard 93K214
- DEUTZ DDC III-10
- Global DHD-1
- Mack EO-N Premium Plus 03
- MAN M 3275-1
- MTU Category 2
- Renault RLD-2
- Volvo VDS-3
- ZF TE-ML 04C

Meets the requirements of:

- API GG-4, CF-4, CF, CI-4
- ACEA E5-02, E3-96
- Cummins CES 20072
- JASO DH-1
- Mack EO-M Plus, EO-M
- Caterpillar 3800 series diesel engines found in marine, agriculture or stationary diesel applications.

Delo® 400 MGX SAE 15W-40 (2016 Introduction)

- Formulated with ISOSYN® Technology
- Excellent oxidation control performance
- Superb piston deposit control
- Extended drain-interval capability
- For use in either high or low sulphur diesel fuels
- Meets wide range of OEM specifications

Delo® Gold Ultra SAE 15W-40

- Formulated with ISOSYN® Technology
- Good oil drain performance
- Excellent oxidation life even with extended oil drain intervals
- Meets CAT ECF-1a specification
- Meets MTU category 2 specification
- Works in a wide range of operating conditions
- Provides excellent long engine life
Delo® Provides Excellent Oil Oxidation Resistance Versus a Major OEM Oil.

In industry recognised benchtests, Delo® 400 Multigrade SAE 15W-40 showed superior performance at resisting oxidation compared to a leading agricultural OEM genuine oil.

Robust Bench Testing

Every day, your agricultural equipment can put heavy-duty engine oils to the test with extreme operating conditions, extended oil-drain performance and high loads to ensure on-time production work. Delo® goes further to prove its value across your diesel equipment.

Test Conditions

Komatsu Hot Tube: 290°C for 16 hours – 2 test average (tested at Southwest Research Institute)

Caterpillar Micro-Oxidation Test: Deposit formation at 230°C (tested at Southwest Research Institute)

Results

Delo® 400 Multigrade SAE 15W-40 results indicate excellent oil-oxidation resistance in the tests conducted versus a major agricultural OEM genuine oil.

Test Application

Indicates the oil’s ability to resist oxidation that can result in Turbocharger (KHT) and Piston Deposits (CMOT).

Delo® Products Protect Your Agricultural Equipment.

BUMPER TO BUMPER.

Delo® heavy-duty engine oils, extended-life coolants, greases and gear oils are specially formulated to meet the intense demands your agricultural equipment and tractors face.

Get Delo® protection where you need it most. At Caltex, we have a history of heavily investing in research and development to ensure your vehicles and equipment get the utmost protection from bumper-to-bumper.

Refer to the OEM manual to confirm the proper product is used for the application.
Trucks used in the agricultural service need to be able to work reliably both on- and off-road ensuring that valuable harvests make it to their intended destination on time and in good condition. Utilising premium lubricants and coolants to achieve high-level reliability and performance at the lowest total operating costs is critical to operating a profitable farm. The Delo family of lubrication products has you covered with outstanding protection in diesel engines, transmissions, gears and coolant systems. Choosing the proven performance of Delo quality lubricants supports an operator’s need for optimal reliability and performance under all operating conditions and for long periods of time. This could mean a higher return on investment, hour after hour.

**Delo** Protects Trucks Dedicated to Ag Service.

**Bumper to Bumper.**

Producing an enormous amount of heat, heavy-working diesel engines in agriculture vehicles and equipment require good cooling-system protection and maintenance.

**Delo** XLC Delivers High Performance and Value.

Keeping your engines operating efficiently requires a high-performing, extended life coolant — plus a good coolant maintenance programme. Delo XLC Prediluted 50/50 has a proven track record for high performance.

Delo XLC delivers optimum engine performance and dramatically simplifies the way cooling systems are maintained. Our patented corrosion inhibitors maximise hardware parts performance and heat transfer over the life of your engine. That’s protection that has stood the test of time through countless hours of performance.

Compared to conventional coolants, Delo XLC can help minimise operation costs and maximise your engine life.

Refer to the OEM manual to confirm the proper product is used for the application.
Protecting transmissions, hydraulics and differentials is critical to achieving total agricultural equipment reliability.

To keep your agricultural equipment operating at high efficiency takes premium products to help ensure excellent protection. Textran® TDH Premium provides long-term performance versus low tier tractor hydraulic fluids.

Textran® TDH Premium is engineered for long life, outstanding oxidation resistance, and excellent wear performance to protect critical components. Textran® TDH Premium is recommended for use over a wide range of OEM specifications including John Deere, Case-New Holland, International Harvester, Kubota, White Farm Equipment and others.

Textran® TDH Premium offers excellent wide temperature range, wear control, seal compatibility, oxidation stability and stay-in grade viscosity performance.

For differential gears in agricultural operation, Delo’s wide range of gear oils provides excellent wear protection and extended-drain performance for equipment durability and maintenance value.

Delo’s range of automotive gear oils is formulated with special anti-wear compounds to protect gears and bearings of axle compartments from various modes of failure, while maintaining full-metal and seal compatibility. They are designed to provide excellent lubrication performance.

Delo® Gear ESI SAE 80W-90
Unique Caltex gear oil designed with borate technology to provide synthetic-like protection for drive axles. Product is compatible with most synthetic gear oils and provides excellent protection at a great value.

Delo® Gear EP-5 SAE 80W-90/85W-140
(Current product name – Thuban GL5 EP SAE 80W-90)
Formulated with Group II base oils and thermally stable additive package, Caltex’s Delo® Gear EP-5 provides very good protection and improved cleanliness performance versus standard API GL-5 gear oils. This product meets both API GL-5 and SAE J2360 specifications for a wide range of applications where a value gear oil product is required for agricultural gear set lubrication.
Delo® Heavy-Duty Greases Are Formulated for Agricultural Operations.

To help your agricultural equipment go further, it’s important that every part operates smoothly. Delo’s premium grease products are formulated to provide high performance and long-life protection, no matter what your farming equipment encounters on the job.

Delo® Grease ESI®
Formulated to provide extended service grease protection for both on- and off-road diesel vehicles. Delo® Grease ESI® provides excellent load-carrying capability, excellent water washout performance, and protects against shock loading. It has been specifically engineered to grease the entire key truck components.

Caltex Starplex® EP
A premium lithium complex thickener, EP and tackiness additives to help protect against shock load, water washout, and high temperature applications.

Gear Up with the Reliability-based Lubrication (RbL™) Team

The RbL Programme can help your equipment and operations Run Better Longer.

The Process
1. Understand Your Business Drivers
We need to understand your operation’s challenges before we can recommend a product or service programme.

We can help you improve:  
• Equipment Uptime
• Maintenance Labour Availability
• Fuel Efficiencies
• Supplier Performance

Additionally, we can help you to:  
• Increase Component Service Life
• Minimise Fluid and Filter Usage
• Learn from Best Practices

2. Develop the Right RBL Programme
A Caltex Lubrication Specialist can conduct our Best-in-Class (BIC) Assessment to identify specific strengths and opportunities in your current lubrication programme. We can develop a plan to help you achieve your business goals.

The five focus areas are:  
• Product Selection
• Optimised Lubrication Intervals
• Inventory Management and Vendor Performance
• Product Integrity
• Lubrication Programme Management

The BIC Assessment can be conducted on a routine basis to track your progress, identify new areas of opportunity and help move your organisation toward best-in-class performance.

3. Document the Opportunity
After completing the BIC Assessment, we use our calculators to estimate the benefit your company could achieve by implementing our RBL Programme. We can develop a transition plan to the RBL Programme that includes creating a scorecard to track results and help identify appropriate resources.

4. Execute the RBL Programme
Our Caltex Lubrication Specialists can provide the expert knowledge to help your operation and equipment Run Better Longer with your new RBL Programme. We can work with you to properly implement on time and in full the recommended products, services and equipment.

5. Track and Document the Results
On an agreed-upon regular schedule, we will review the RBL Programme scorecard to track and document the results. We can help identify additional action items or new opportunities to target.

Caltex’s RBL Programme is our commitment to reliability to help you increase equipment uptime and component service life.
Delo® Provides Superb Engine Reliability.

Marchini Ag achieves 10,000+ hours of engine and cooling system life using Delo® 400 and Delo® Extended Life Coolant.

The Marchini family has deep roots in the agricultural heartland of California’s Central Valley. Since Florindo Marchini arrived in this country from Lucca, Italy a century ago, the family has grown everything from tomatoes to almonds, and even holds the heritage of introducing radicchio to American salad bowls.

Equipment ploughing the company’s fields includes a 300 brake horsepower (bhp) John Deere 8520T tractor that has been in operation for over nine years, accumulating more than 10,000 hours of service. Marchini was interested in how its equipment was being protected and agreed to conduct a teardown of the tractor to inspect its critical components.

Pistons
- In very good condition with minimal deposits allowing for excellent ring sealing

Main Bearings
- In very good condition with minimal abrasions and no visible wear areas

Piston Liners Exterior
- No liner pitting or silicated deposits showing – indicating excellent cavitation protection and superb heat transfer capability.

Water Pump
- Very clean with no cavitation or erosive wear showing the excellent protection provided by Delo®ELC

Delo® Extends Tractor Engine Rebuild Life.

H.J. Linde & Sons achieves 16,000 hours of engine life using Delo® 400 in their New Holland tractors.

H.J. Linde & Sons have been farming for 100 years and have been very successful in focusing on productivity and a top-notch maintenance programme to help it weather the ups and downs of the farming business.

They operate over 25 pieces of New Holland agricultural equipment and were recently interested in seeing the condition of one of their tractors that had achieved 16,000 hours of operation, which was over 6,000 hours more than typically achieved for a major overhaul by the OEM.

The teardown and inspection were conducted at their OE dealer workshop facility and it impressed not only the H.J. Linde maintenance team, but also the OE dealer technical personnel at the shop with minimal wear on engine parts and excellent cleanliness of the engine. For the H.J Linde personnel it was a visual confirmation of how Delo® 400 protects their equipment.

Pistons
- Clean ring grooves and minimal deposits on the crown-land at 16,000 hours of operation.

Connecting Rod Bearings
- Good overall protection even after more than 6000 hours past typical replacement.

Main Bearings
- Minimal wear and in very good condition after 16,000 hours of use. No visible copper was showing through the main bearings indicating excellent protection provided by Delo® 400.

Camshaft
- Minimal wear, no skidding or abrasions. Camshaft is in such good condition it could be reused.

I can’t always count on the rain or agricultural prices. But I can count on Delo® 400 to protect the life of my engines and equipment reliability.

Hansie Linde
Owner & Principal
H.J. Linde & Sons Farms