

**DELO® WITH ISOSYN® TECHNOLOGY** VS. **CONVENTIONAL DIESEL ENGINE OIL**

It all starts with the premium base oil manufacturing.



Light Neutral Heavy Neutral



Light Neutral Heavy Neutral

Base Oils made with Chevron's ISOCRACKING®/ ISODEWAXING® Catalyst

Conventional Solvent Dewaxing Base Oil Technology

Next is the use of high performance additives that allow for excellent soot dispersancy, which reduces sludge buildup and minimizes viscosity increase.



Delo® High Performance Additive Formulation Provides Excellent Soot Dispersancy and Helps Prevent Deposit Buildup



Economical Heavy-Duty Engine Oil Additive Formulation Provides Poor Soot Dispersancy Which Increases Sludge Formation

Combining the above with Chevron's formulation expertise, Delo® with ISOSYN® Technology provides superb protection to critical engine parts.



Delo® with ISOSYN® Technology Protects Critical Engine Parts to Help Maximize Engine Life



Economical HDEO Formulation Sacrifices Protection for Cost and Limits Critical Engine Life



[www.CaltexDelo.com](http://www.CaltexDelo.com)



Disclaimer: All original equipment manufacturers (OEM) have different lubricant requirements and specifications. It is the responsibility of the Customer to ensure that the products are used in the applications for which they are intended for. Please always consult the Manual of your vehicle/equipment for the selection of correct product.

A Chevron company product

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# Why ISOSYN®?



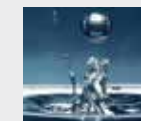
## Delo®

### Let's go further.™

### WHAT IS ISOSYN® ?

ISOSYN® Technology is how Chevron formulates its top tier Delo® products. It's the combination of our premium base oils, high performance additives with Chevron's formulation expertise that provide superb diesel engine parts protection. All at an outstanding value.

### ISOSYN® TECHNOLOGY



Premium Base Oils



High Performance



Chevron Formulation Expertise



### DELO® WITH ISOSYN® TECHNOLOGY LETS YOU GO FURTHER

Delo® with ISOSYN® Technology provides the following benefits:

- Provides Extended Service Protection
- Maximizes Engine Durability
- Minimizes Operating Costs

### PERFORMANCE ACROSS VARIOUS INDUSTRIES

Delo® with ISOSYN® Technology has logged millions of miles and thousands of hours in various diesel engines in all types of conditions. Industries that can benefit from Delo® with ISOSYN® Technology include:

- Owner-Operators
- Fleets
- Construction
- Agriculture
- Mining
- Marine

### THE PROMISE DELO® DELIVERS

The ultimate value of Delo® with ISOSYN® Technology for customers is that it:

- Provides excellent soot dispersancy and sludge protection
- Protects critical engine parts
- Delivers confidence to work equipment to its maximum productivity



Delo® is Caltex's premium lubricant brand for heavy-duty diesel vehicles. Delo delivers confidence to commercial and industrial professionals who require the best equipment performance and protection.

Our customer commitment has led us to constantly improve our products and reliability offering. The Delo® family of products has been designed as a complete premium portfolio to protect your vehicles.

The Delo® family of products provides the protection customers need to be confident that they can maximize equipment productivity and minimize costly repairs or downtime. **Delo® helps you go further.**

To learn more about the complete Delo® product line, visit us at [www.CaltexDelo.com](http://www.CaltexDelo.com).

## Delo® Family of Products

For Bumper-to-Bumper protection, the Delo® family of products can provide protection for all critical equipment components to ensure maximum productivity.



### Delo® 400 MGX

**Product Description:**  
Delo® 400 MGX SAE 15W-40 is an API CJ-4 heavy duty diesel engine oil specifically formulated for on-highway and off-highway applications using either High Sulfur or Low Sulfur Diesel and can also provide protection for newer compliant low emission diesel engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR). It is fully compatible with previous diesel engine models and previous API Oil Service Categories including API CI-4 PLUS, API CI-4 and API CH-4.

- Benefits:**
- Exceptional soot dispersancy and wear control.
  - Provides excellent protection against wear and corrosion to Cylinders, pistons, rings, and injectors. Thus providing optimum service life and minimal maintenance.
  - Contributes to maximum vehicle utilization and minimal downtime.
  - Backward compatible with previous API Oil Service Categories and engine models.
  - Meets the requirements of major North American, European and Japanese engine manufacturers including Volvo, Caterpillar, Mercedes, MAN, Cummins and many others including Japanese.

**Applications:**  
Delo® 400 MGX SAE 15W-40 is recommended for naturally aspirated and turbocharged four-stroke diesel engines in which the API CJ-4, CI-4 PLUS, CI-4 categories and SAE 15W-40 viscosity grade are required by the manufacturers. It is formulated for engines operating under severe service and a wide range of climatic conditions. This product is recommended for use in:

- Commercial road transport, including the latest engines fitted with exhaust cleanup devices of all types.
- Vehicles meeting the most recent exhaust emissions standards, including US EPA 2002 and 2007, Euro IV, V and VI, and Australian ADR 80/02 (for medium duty) and ADR 80/03 (for heavy duty).
- Stop-and-go vehicles in high soot loading service such as buses and waste collection trucks.
- Most modern off-highway engines including those adapted for current and future emissions standards in construction, agriculture, marine and mining applications.
- High speed diesel engines using high or low sulfur diesel fuels.
- Diesel engines utilizing diesel fuels with up to 20% biodiesel (B20)



### Delo® Gold Ultra

**Product Description:**  
Delo® Gold Ultra SAE 15W-40 is a high performance, multigrade, heavy-duty diesel engine oil specifically designed to lubricate a wide range of engines requiring API CI-4 or ACEA E7 performance lubricants. Delo® Gold Ultra is formulated with ISOSYN® technology.

- Benefits:**
- Reduces maintenance costs
  - Prolongs engine life
  - Preserves full power and performance
  - Extends oil and filter service intervals
  - Advanced ISOSYN® protection
  - **Meets Extensive Industry Standards and OEM Approvals:**  
- API CI-4 / SL, ACEA E7, Daimler MB-Approval 228.3, JASO DH-1, Mack EO-N, MAN M 3725-1, Renault RLD-2, Volvo VDS-3, Caterpillar ECF-1-a

- Applications:**
- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
  - Commercial road transport
  - Agricultural tractors and farm machinery
  - High speed diesel engines in marine service (e.g. fishing boat, river transport)
  - Generator sets
  - Mobile hydraulic systems (where oil type and viscosity are appropriate)



### Delo® Silver Multigrade

**Product Description:**  
Delo® Silver Multigrade SAE 15W-40 and SAE 20W-50 are heavy-duty diesel engine oils designed for use in engines where API CF-4, CF / SG lubricant performance is required.

- Benefits:**
- Saves on fleet maintenance costs
  - Longer engine life
  - Maintains high power and performance
  - **Specification standards:**  
- API CF-4, CF / SG

- Applications:**
- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
  - Commercial road transport vehicles
  - Off-highway vehicles
  - Agricultural tractors
  - High speed diesel engines in marine service (e.g. fishing boat, river transport)
  - Generator sets
  - Mobile hydraulic systems (where oil type and viscosity are appropriate)



### Delo® Silver

**Product Description:**  
Delo® Silver SAE 30 and SAE 40 are monograde heavy-duty diesel engine oils designed to lubricate engines requiring API CF or SF performance lubricants. The level of alkaline reserve makes it suitable for use with high sulfur fuels at appropriate oil drain intervals.

- Benefits:**
- Saves on maintenance
  - Prolongs periods between overhauls
  - Preserves power and performance
  - High alkaline reserve
  - **Specification standards:**  
- API CF, CD / SF

- Applications:**  
The following applies whenever the manufacturer recommends monogrades:
- Mixed fleets of diesel engines (high speed, four-stroke, turbocharged or naturally aspirated)
  - Commercial road transport
  - Off-highway vehicles
  - Agricultural tractors
  - High speed diesel engines in marine service (e.g. fishing boats, river transport)
  - Generator sets
  - Mobile hydraulic systems (where oil type and viscosity are appropriate)



### Delo® Grease ESI

**Product Description:**  
A multipurpose EP on-highway and off-highway wheel bearing and chassis grease designed for superior performance under harsh conditions. It is engineered to minimize friction and wear, providing exceptional protection and performance.

- Benefits:**
- Approved for NLGI Certification Mark LB\*
  - Effective rust and corrosion inhibitors protect metal surfaces
  - Effective water resistance
  - Reduces complexity and versatile in a number of applications

\*Delo Grease ESI exceeds the requirements of NLGI GC for EP protection and wheel bearing life.