



# DELO<sup>®</sup> TORQFORCE<sup>®</sup> MP ISOCLEAN<sup>®</sup> CERTIFIED LUBRICANT

## PRODUCT DESCRIPTION

Delo<sup>®</sup> TorqForce<sup>®</sup> MP ISOCLEAN<sup>®</sup> Certified Lubricant is a synblend lubricant designed for use in transmissions, wet brakes, and hydraulic systems requiring a fluid meeting Caterpillar TO-4 or TO-4M requirements. It can also be used in Komatsu equipment for hydraulic and transmission requirements in cold climate operations. Chevron ISOCLEAN Certified Lubricants have been certified to meet specified ISO Cleanliness standards at point of delivery using industry leading filtration and testing technology. ISOCLEAN Certified products are the first step for contamination control and maximizing component life.



## CUSTOMER BENEFITS

Delo TorqForce MP ISOCLEAN Certified Lubricant delivers value through:

- **Ready to use** — Enables users to meet stringent original equipment manufacturers' cleanliness standards for fill lubricants.
- **Flexibility** — ISO Cleanliness targets can be customized to fit your business application needs.
- **Peace of mind** — Each delivery of Chevron ISOCLEAN Certified Lubricant includes an ISOCLEAN Certificate of Analysis.
- **OE fluid cleanliness requirements** — Customized to meet specific equipment manufacturers' fluid cleanliness requirements.
- **Low operational cost** — Excellent performance in a wide range of ambient and operating temperatures. Provides optimum low temperature transmission, wet-brake, and hydraulic responsiveness — helping to minimize seasonal oil changes and operational costs.

- **Smooth operation** — Excellent frictional control helps prevent clutch slippage; formulated for quiet and efficient action of transmission and brakes while minimizing wear.
- **Improved filterability** — Delo TorqForce MP ISOCLEAN Certified Lubricant is formulated with special additive chemistry that allows for ultra-fine filtration which provides exceptional fluid cleanliness and equipment reliability performance. Delo TorqForce MP ISOCLEAN Certified Lubricant can achieve cleanliness levels down to 18/16/13 and potentially cleaner with appropriate Chevron approved ISOCLEAN Programs.
- **Long oil life** — Outstanding ability of the base stock to withstand oxidation at high operating temperatures results in maximum service life for the oil.
- **Cold weather performance** — Very good cold weather pumpability for transmission and hydraulic components that operate in cold climates and need improved flow capability to keep key parts lubricated.
- **Low inventory cost** — One fluid does the job of a full range of mobile hydraulic systems. Can replace multiple products and free up shelf space too!
- **Warranty Plus protection** — Bumper-to-bumper warranty protection from the engine to the drive train. Payment for Chevron lubricant-related damage to your equipment, including parts and labor.<sup>1</sup> Problem resolution and technical advice from Chevron's lubrication experts.

<sup>1</sup> See Warranty Plus for details and restrictions.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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TTF-32 ISOCLEAN

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## FEATURES

Delo® TorqForce® MP

ISOCLEAN® Certified Lubricant is a high performance lubricant designed for use in transmissions, final drives, and hydraulic systems requiring a fluid meeting Caterpillar TO-4 or TO-4M, or Allison C-4 requirements. It is also recommended for transmission and hydraulic systems manufactured by Dana Powershift, Komatsu, Vickers and ZF.

Delo TorqForce MP ISOCLEAN Certified Lubricant is a synblend product, manufactured using a unique blend of base stocks and additive technology. As a result, this product provides both excellent low temperature pumpability and high temperature film thickness.

The fluid is designed for both newly developed and older model drive train components.

Delo TorqForce MP ISOCLEAN Certified Lubricant is compatible with new and traditional seal and clutch materials. The frictional characteristics of the fluid are retained over the life of the lubricant. Components are protected from wear, even in severe service and under high loads. It helps protect precision parts against wear under high load conditions by controlling the formation of corrosion, varnish, and sludge.

## APPLICATIONS

Delo TorqForce MP ISOCLEAN Certified Lubricant is recommended for:

- Allison, Caterpillar, Dana Powershift, Komatsu and Vickers transmissions, wet brakes, torque converters, and hydraulic systems requiring a fluid meeting Caterpillar TO-4/TO-4M or Komatsu requirements
- Lightly loaded final drives — making inventory consolidation possible
- Heavy duty off highway automatic transmissions

Delo TorqForce MP ISOCLEAN Certified Lubricant is not recommended for use in combined farm tractor hydraulic and transmission systems where low brake chatter is a requirement.



## Delo TorqForce MP ISOCLEAN Certified Lubricant meets:

- service requirements **Caterpillar** TO-4 and TO-4M

## Delo TorqForce MP ISOCLEAN Certified Lubricant is recommended for:

- **Dana Powershift**
- **Komatsu** KES 07.868.1
- **Vickers** 35VQ25
- **ZF** TE-ML-03C

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Consult with your Chevron Lubricant Representative or Chevron ISOCLEAN® Certified Lubricants Marketer to set specific ISO Cleanliness targets for your business application.

## TYPICAL TEST DATA

	ASTM Test Method	
<i>Product Number</i>		254605
<i>SDS/MSDS Number</i>		
<i>USA</i>		38357
<i>Canada</i>		38358
<i>Mexico</i>		38359
API Gravity	ASTM D1298	30.8
Viscosity, Kinematic		
cSt at 40°C	ASTM D445	113
cSt at 100°C		14.3
Viscosity Index	ASTM D2270	129
Flash Point, °C(°F)	ASTM D92	270(518)
Pour Point, °C(°F)	ASTM D97	-36(-33)
Mini-Rotary Viscometer		
cP at -20°C	ASTM D4684	7000
cP at -30°C		43,000

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.