



DELO® TORQFORCE® SYN ISOCLEAN® CERTIFIED LUBRICANT SAE 5W-30 (formerly 5W-20)

PRODUCT DESCRIPTION

Delo® TorqForce® Syn SAE 5W-30 ISOCLEAN® Certified Lubricant is a high performance fully synthetic lubricant designed for use in transmissions and hydraulic systems. 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 Syn SAE 5W-30 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.
- **Long equipment life** — Special additives protect metal surfaces against scuffing and wear even under operating conditions of high temperature and high load.
- **Smooth operation** — Excellent frictional control helps prevent clutch slippage and assures quiet and efficient action of transmission and brakes while minimizing wear.
- **Extreme temperature performance** — Excellent cold weather pumpability in sub-zero/arctic operating conditions. Very good high operating temperature performance for severe service applications.
- **Improved filterability** — Delo TorqForce Syn SAE 5W-30 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 Syn SAE 5W-30 ISOCLEAN Certified Lubricant can achieve cleanliness levels down to 18/16/13 and potentially cleaner with appropriate Chevron approved ISOCLEAN Programs.
- **Minimal downtime** — Good compatibility with seals, O-rings, and packing materials maintains their good condition and keeps leakage at a minimum.
- **Long oil life** — Outstanding ability of the synthetic base stock to withstand oxidation at high operating temperatures resulting in long service life for the oil.
- **Reliable operation** — Formulation helps keep metal parts clean and free of varnish and sludge deposits that could result in premature breakdown.
- **Minimizing weather and storage concerns** — Protects against rust and corrosion of highly finished precision parts when operating in humid conditions and during seasonal shutdown periods.
- **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.¹ Problem resolution and technical advice from Chevron's lubrication experts.

¹ 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-33 ISOCLEAN

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FEATURES

Delo® TorqForce® Syn SAE 5W-30 ISOCLEAN® Certified Lubricant is a high performance lubricant designed for use in transmissions and hydraulic systems operating in arctic conditions and requiring a fluid meeting Caterpillar TO-4. It is also recommended for transmission and hydraulic systems manufactured by Dana Powershift, Komatsu, Danfoss/Eaton and ZF.

Delo TorqForce Syn SAE 5W-30 ISOCLEAN Certified Lubricant is formulated with synthetic base oils and additives to provide excellent friction retention, wear control, seal compatibility, oxidation stability, and viscosity stability. The frictional characteristics of the fluid are retained over the life of the lubricant.

Components are protected from wear, even under high load conditions by controlling the formation of corrosion, varnish, and sludge.

Delo TorqForce Syn SAE 5W-30 ISOCLEAN Certified Lubricant is designed for both newly developed and older model drive train components. It provides high performance throughout the seasons, maintaining optimal stability in a wide range of ambient temperatures.

APPLICATIONS

Delo TorqForce Syn SAE 5W-30 ISOCLEAN Certified Lubricant is recommended for use in **Allison, Caterpillar, Dana Powershift, Komatsu, Danfoss/Eaton** and **ZF** transmissions, wet brakes, and hydraulic systems operating in arctic conditions.

It is not recommended for use in combined farm tractor hydraulic and transmission systems where low brake chatter is a requirement.

Delo TorqForce Syn SAE 5W-30 ISOCLEAN Certified Lubricant meets:

- service requirements of **Caterpillar** TO-4



Delo TorqForce Syn SAE 5W-30 ISOCLEAN Certified Lubricant is recommended for:

- **Allison C-4**
- **Dana Powershift**
- **Komatsu** KES 07.868.1
- **Danfoss/Eaton** 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

| SAE Grade | Test Method | 5W-30 |
|---|-------------|---------------|
| <i>Product Number</i> | | <i>278101</i> |
| <i>SDS Number</i> | | <i>54573</i> |
| Density at 15°C, kg/L | ASTM D4052 | 0.8657 |
| Viscosity, Kinematic cSt at 40°C cSt at 100°C | ASTM D445 | 53.8 10.5 |
| Viscosity Index | ASTM D2270 | 189 |
| Viscosity, Brookfield, cP at -35°C | ASTM D2983 | 15,400 |
| Viscosity, Cold Crank, cP at -30°C | ASTM D5293 | 5,500 |
| Viscosity, Pumping, cP at -35°C | ASTM D4684 | 11,500 |
| Flash Point, °C(°F) | ASTM D92 | 232(451) |
| Pour Point, °C(°F) | ASTM D97 | -48(-54) |

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.