

CLARITY® MACHINE OIL ISOCLEAN® Certified Lubricant 150, 220, 320

PRODUCT DESCRIPTION

Clarity® Machine Oils ISOCLEAN®
Certified Lubricants are circulating oils
for use in industrial equipment such as
gear boxes, calender stack bearings
and crown control rolls. 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

Clarity Machine Oils ISOCLEAN Certified Lubricants deliver 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.
- **High temperature stability** Contains an effective oxidation inhibitor to protect the oil at elevated ambient operating temperatures.
- Long lubricant life A well-balanced additive package and high quality base oils help minimize breakdown and maximize oil life. Gives excellent performance in the FAG FE-8 Bearing Test.
- **Excellent wear protection** Helps provide high FZG, Timken, and AGMA EP performance.

- **Excellent water separability** The lubricant separates readily from water.
- Effective foam inhibition Helps minimize amount of entrained air in the oil, minimizing the possibility of pump cavitation and also helps prevent surface foam.
- **Pall wet filterability** Clarity Machine Oil consistently provides excellent wet aged filtration with low micron filters.
- Environmental sensitivity Ashless formulation facilitates reclaiming and recycling efforts. Nontoxic to aquatic species as determined by LC-50 testing.

FEATURES

Clarity Machine Oils ISOCLEAN Certified Lubricants are formulated with high quality base oils.



Their ashless extreme pressure additive packages include rust, oxidation, and foam inhibitors.

Their outstanding oxidation stability minimizes deposit formation.

They have gear oil EP characteristics to minimize wear, and yet do not contain corrosive active sulfur additives.

Their ashless formulation facilitates reclaiming and recycling of circulating oils.

They have excellent water separating ability (demulsibility), and exceptional wet filterability with fine porosity oil filters, as demonstrated by the Pall Filterability Test.

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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FUNCTIONS

Clarity® Machine Oils ISOCLEAN Certified Lubricants are formulated to meet the critical demands of circulating systems in industrial equipment. These systems expose the lubricant to a broad range of operating temperatures which hasten oxidation. Clarity Machine Oils ISOCLEAN Certified Lubricants have good tolerance to contamination with water, oxidation byproducts and other particles. Clarity Machine Oils ISOCLEAN Certified Lubricants are able to have a long lubricant life in spite of these contaminants and still do an outstanding job of keeping the circulating oil system clean and lubricating the many plain and anti-friction bearings associated with this complex high speed equipment.

APPLICATIONS

Clarity Machine Oils ISOCLEAN Certified Lubricants are recommended for use in circulating systems of industrial equipment as well as gear boxes, including wet-end systems, dryer bearings, and calender stacks in paper machine systems.

Clarity Machine Oils ISOCLEAN Certified Lubricants have been used successfully in the lubrication of many types of paper machine equipment including Valmet, Beloit, and Voith Sulzer paper machine equipment.

In addition, Clarity Machine Oils ISOCLEAN Certified Lubricants provide excellent filtration performance in the Pall Filterability Test using low micron filters.

Clarity Machine Oils ISOCLEAN Certified Lubricants may be used as AGMA EP Oils 4, 5, 6 and 7, respectively, for back-side gears and enclosed gear drives.

Clarity Machine Oils ISOCLEAN Certified Lubricants **220** and **320** may also be used in plain and antifriction bearings.

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

TYPICAL TEST DATA

ISO Grade	150	220	320
Product Number	278084	294043	278083
SDS Number	6680	6680	6680
AGMA Grade	4 EP	5 EP	6 EP
API Gravity	29.3	27.7	26.1
Viscosity, Kinematic cSt at 40°C cSt at 100°C	143 14.6	209 18.4	304 23.5
Viscosity, Saybolt SUS at 100°F SUS at 210°F	749 78.1	1104 94.2	1616 117
Viscosity Index	101	97	98
Flash Point, °C(°F)	246(475)	249(480)	248(473)
Pour Point, °C(°F)	-15(+5)	-15(+5)	-12(+10)
Timken OK Load, lb	60	60	60
FZG Failure Load Stage, DIN 51354	>12	>12	>12
Oxidation Stability, Hours to 2.0 mg KOH/g acid number, ASTM D943 Minutes to 25 psi pressure drop, ASTM D2272	4500 367	4000 375	3000 345
Pall Filterability Wet Aged, mL to 25 psi	>17,000	>17,000	>17,000

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

