



Premium performance, synthetic EP gear oil and circulating oil designed for use in a wide range of industrial equipment operating under severe conditions, such as heavy and/or shock loading and elevated temperatures, where short service life with conventional lubricants can be expected. Formulated with a combination of poly-alpha-olefin and synthetic ester base fluids and selected additives to provide effective EP performance and wear protection, increased thermal/oxidation stability and protection against corrosion and rust.

APPLICATIONS

- All types of gear systems in mobile and stationary industrial equipment where an EP lubricant is specified, including spur, bevel and worm gears.
- Plain and anti-friction bearings subjected to heavy-duty operating conditions.
- Circulating oil systems where an EP lubricant is required.
- Outdoor machinery exposed to wide ambient temperature conditions, such as crane, hoist and winch gearboxes.
- Speed reducers, chain drives, sprockets and flexible couplings.
- Bath, splash, circulating and spray lubrication systems.

BENEFITS

- **Thermally stable**
Effective thermal and oxidation stability reduces deposit formation, maintaining a cleaner gear/circulating oil system.
- **Protects metal surfaces**
EP additive provides protection against wear of bearing and gear surfaces during heavy-duty operation. Effective rust and corrosion inhibitors protect all system components.
- **Proven performance**
Effective air and water separation characteristics reduce the risk of surface wear caused by loss of lubricating oil film. Compatibility with many conventional seal materials and mineral-type circulating oils eliminates operational problems if changing oil types.

PERFORMANCE STANDARDS

ANSI/AGMA Standard 9005-E02
David Brown Table H
DIN 51517 Part 3 CLP
US Steel Specification No. 224



TYPICAL CHARACTERISTICS

Product Code	3000	3001	3274
ISO Grade	220	320	680
Flash Point, COC, °C	238	238	242
Pour Point, °C	-34	-34	-30
Timken OK Load, kg	31.8	31.8	43.2
Viscosity, at 40°C, mm ² /s at 100°C, mm ² /s	220 23	320 29	646 63
Viscosity Index	124	124	168

PACK SIZES

ISO Grade	220	320	680
1000L		✓	✓
208L	✓	✓	
20L	✓	✓	

ENVIRONMENT, HEALTH AND SAFETY

Users should consult the MSDS, follow the precautions outlined and comply with all laws and regulations concerning its use and disposal. Used packaging material should not be incinerated or exposed to flame. After use, protect your environment. Do not pollute drains, soil or water with used product.

OTHER INFORMATION

For further information on Caltex products and services call the Lubelink Advisory Service on 1300 364 169 between 8.00am and 6.00pm (EST) Monday to Friday.

Information in this publication is accurate at the time of printing and reasonable care has been taken to ensure it is complete and accurate. However, this information is subject to change (such as when formulations or usage and storage information changes). Please visit www.caltex.com.au for the latest product information. Independent advice should be sought before taking any action in reliance on the information in this publication, and Caltex Australia Limited and its related bodies corporate accept no liability for any reliance on this publication's content.