

# SHELL OMALA S4 WHEEL

ADVANCED SYNTHETIC INDUSTRIAL GEAR OIL

PREVIOUSLY SHELL HYPERIA S

DESIGNED TO MEET CHALLENGES



Shell Omala S4 Wheel is an advanced synthetic heavy-duty industrial gear oil offering outstanding lubrication performance under severe operating conditions, including improved energy efficiency and long service life. It is recommended specifically for use in General Electric Off-Highway Motorised Wheels fitted to load haul dump trucks used in mining applications.

## PERFORMANCE FEATURES

### EXCELLENT WEAR CORROSION PROTECTION

- n Provides high levels of load carrying capacity even under shock loading conditions. This provides benefits over mineral oil-based products in terms of gear and bearing component life.
- n Shell Omala S4 Wheel oil provide outstanding rust and corrosion protection on metal surfaces.

### LONG OIL LIFE–MAINTENANCE SAVING

- n Resists the formation of harmful products of oxidation at high operating temperatures, improving system cleanliness and therefore reliability of the equipment.
- n Extended component and lubricant life offers the opportunity to extend service intervals and to help reduce maintenance and disposal costs.

### ENHANCED SYSTEM EFFICIENCY

- n Offers improved low temperature performance and reduced change in viscosity with increase in temperature in comparison to mineral oil-based products. This provides better lubrication at low start-up temperatures and the opportunity for energy savings by optimising the viscosity for normal operating conditions.
- n Shell Omala S4 Wheel oils also have excellent water shedding and air release properties helping it maintain critical oil films and efficient lubricant.

## APPLICATIONS

- n Gearcases of General Electric motorised wheels fitted to load haul dump trucks used in mining applications.
- n Enclosed industrial reduction gear systems operating under severe operating conditions, such as high load, very low or elevated temperatures and wide temperature variations.
- n Plain and rolling element bearings.
- n Oil circulation systems.
- n For highly-loaded worm drives, Shell Omala S4 Wheel oil is recommended.
- n For automotive hypoid gears, the appropriate Shell Spirax oil should be used.

## SEAL AND PAINT COMPATIBILITY

Shell Omala S4 Wheel is compatible with all seal materials and paints normally specified for use with mineral oils.

## SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

MEETS THE SPECIFICATIONS OF:

- n David Brown S253.106H
- n US Steel 224
- n DIN 51517-3 (CLP).

APPROVED UNDER GE UNDER GEK-30375H AGAINST THE FOLLOWING:

- n ISO 320 GE Specifications D50E 27C
- n ISO 460 GE Specifications D50E 27D
- n ISO 680 GE Specifications D50E 27E.

## TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	680
Kinematic Viscosity (ISO 3104) @ 40°C mm <sup>2</sup> /s	680
@ 100°C mm <sup>2</sup> /s	61
Viscosity Index (ISO 2909)	157
Density @ 15°C kg/m <sup>3</sup> (ISO 12185)	860
Flash Point (ISO 2592) (PMCC) °C	274
Pour Point °C (ISO 3016)	-43
FZG Load Carrying Test (DIN 51354-2) A/8, 3/90 A/16, 6/90 – Failure load stage	>12
Timken OK Load lbs (ASTM D 2782)	>80