

SHELL OMALA[®] FLUID HD

Synthetic heavy duty industrial gear fluids

Product Description

Shell Omala[®] Fluid HD is an advanced synthetic heavy duty industrial lubricant offering outstanding lubrication performance & load carrying capacity under severe operating conditions including shock loading. **Shell Omala Fluid HD** offers improved energy efficiency, long service life and high resistance to micro-pitting (grey staining) for optimal gear protection.

Shell Omala Fluid HD resists the formation of harmful products of oxidation at high operating temperatures, improving system cleanliness and therefore reliability of the equipment. This oxidation resistance helps extend component and lubricant life, which helps to reduce maintenance and disposal costs. **Shell Omala Fluid HD** 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 optimizing the viscosity for normal operating conditions. The high VI makes it ideal for wide temperature swings, especially found in the northern climates.

Applications

- enclosed industrial reduction gear systems operating under severe operating conditions, such as high load, very low or elevated temperatures and wide temperature variations
- particularly suitable for certain 'lubricated-for-life' systems
- plain and rolling element bearings
- oil circulation systems where EP properties are desired

Performance Features and Benefits

- excellent load carrying capacity and micro-pitting performance helping to provide long component life
- excellent oxidation and thermal stability helping to extend lubricant life
- longer service intervals helping to reduce lubricant cost
- outstanding lubricity helping to improve gear efficiency
- applicable for wide temperature range
- outstanding rust and corrosion protection of all metal surfaces
- rapid water shedding and air release performance

Specifications and Approvals

- meets the ISO 12925-1 Type CKD specification.
- meets the ANSI/AGMA 9005 specification.
- meets the US Steel 224 specification
- meets the requirements of Flender AG.

Seal and paint compatibility

Shell Omala[®] Fluid HD is compatible with all seal materials and paints normally specified for use with mineral oils.

Change over procedure

Shell Omala[®] Fluid HD is based on synthesized hydrocarbon fluids and is compatible with petroleum mineral oils - no special change-over procedure is necessary. However, to achieve the complete benefit of **Shell Omala HD**, it should not be mixed with other oils. It is also advisable to ensure that oil systems are clean and free from contamination.

Typical Properties of Shell Omala[®] Fluid HD

	Test Method	ISO Viscosity Grade			
		150	220	320	460
Product Code					
5 Gallon Pail		6556905203	6513105203	6513205203	6513305203
55 Gallon Drum		6556900055	6513100055	6513200055	6513300055
AGMA EP Grade		150	220	320	460
Viscosity:					
@ 40°C, cSt	D 445	156.9	219	312	446
@ 100°C, cSt	D 445	21.7	28.6	37.6	50.2
Viscosity Index	D 2270	164	169	171	175
Flash Point, COC, °F	D 92	470	480	480	480
Pour Point, °F	D 97	-45	-45	-45	-40
Rust Test, SSW	D 665B	Pass	Pass	Pass	Pass
Copper Corrosion	D 130	1b	1b	1b	1b
FZG Load Carrying Test	DIN 51354-2				
Failure load stage	A/8.3/90	>12	>12	>12	>12
Timken OK Load	D 2782	TBD	TBD	TBD	TBD

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.