



Lubricants Report



Product Data Sheet from Shell Lubricants

PDS# 3.04.06

SHELL OMALA* RL OILS PREMIUM QUALITY SYNTHETIC NON-EXTREME PRESSURE BEARING AND GEAR OILS

PRODUCT LINE

Shell **Omala RL Oils**, based on the highest quality synthetic (PAO) hydrocarbons, are blended for the lubrication of bearings and gears operating in severe duty conditions. Carefully selected additives are incorporated to ensure lubrication performance far superior to that provided by conventional petroleum mineral oils.

Shell **Omala RL Oils** are available in ISO 150, 220 and 460 viscosity grades.

APPLICATIONS

- Enclosed and lightly loaded industrial reduction gear systems subjected to severe operating conditions, such as high temperatures, wide temperature variations and long oil servicing intervals.
- Particularly recommended for certain 'sealed-for-life' systems.
- Moderately loaded plain or roller bearings
- Oil circulation systems
- Marine Separators

PERFORMANCE FEATURES

- **Superior Lubrication Performance** - Significantly better lubrication performance than that provided by conventional petroleum mineral oils. Extends component life.
- **High Viscosity Index** - Minimum variation of oil viscosity with changes in ambient and operating temperatures.
- **Excellent Oxidation & Thermal Stability** - Resists the formation of the harmful products of oxidation at high operating temperatures.
- **Extended Lubricant Life** - Longer periods between servicing. Lower maintenance and disposal costs.
- **Outstanding Rust and Corrosion Protection** - High level of corrosion protection of all metal surfaces.
- **Improved System Cleanliness** - For clean, efficient and reliable performance.
- **Low Pour Point** - Effective lubrication at low start-up temperatures.
- **Low Traction Coefficients** - Due to the low traction coefficients of PAOs, **Omala RL Oils** reduce operating temperatures, extend fatigue lives, improve efficiency and reduce energy consumption.

PRODUCT ADVANTAGES

- Oil change frequencies reduced
- Corrosion protection in the presence of contaminants
- Excellent water separation properties
- For use in worm and helical gear boxes

PERFORMANCE BENEFITS

- Improved Equipment Reliability
- Increased Equipment Life
- Improved Operational Efficiency
- Reduced Downtime Costs
- Lower Maintenance Costs
- Longer Lubricant Life
- **Seal & Paint Compatibility** - Shell **Omala RL** Oils are compatible with the elastomers, gaskets, seals and paints normally used in systems designed for use with conventional mineral oils.
- **Change-Over Procedure** - Shell **Omala RL** Oils are compatible with petroleum mineral oils and other polyalphaolefin lubricants. To achieve the full benefit of Shell Omala RL Oils, equipment should be cleaned and flushed to minimize the contamination with other lubricants. After switching equipment over to a new synthetic lubricant, we recommend monitoring the system as the synthetic lube can clean up deposits left by mineral oils. Please contact your Shell Representative or the Shell Helps Centre for more information.

APPROVALS

- Meets ISO 12925-1 Cat. CKS
- Registered with the Canadian Food Inspection Agency (CFIA) under Lubricants: General for use where contact with food will not occur: avoid food contamination during application and storage.

TYPICAL PROPERTIES

ISO VISCOSITY GRADE	150	220	460	
PRODUCT CODE	407-548	407-544	407-545	ASTM METHOD
Density, @ 15° C, kg/m3	848	853	855	D 1298
Viscosity mm2/s @ 40° C	153	222	458	D 445
mm2/s @ 100 ° C	19.8	25.9	45.5	D 445
Viscosity Index	149	149	155	D 2270
Pour Point, ° C	-54	-48	-42	D 97
Flash Point, ° C	236	240	274	D 92
Demulsibility @ 82° C, Oil/Water/Emulsion (min.)	43/37/0(10)	43/37/0(10)	43/37/0(10)	D 1401
Foam, Seq.I, Seq.II, Seq.III	0/0,0/0,0/0	0/0,0/0,0/0	0/0,0/0,0/0	D 892
Rust Protection	Pass	Pass	Pass	D 665B
Copper Corrosion 3 hours @ 100°C	1A	1A	1A	D 130
3 hours @ 150°C	2C	2C	2C	D 130
FZG, Pass Stage	12	12	12	CEC L 07 A 95
Weld Point, kg	210	210	210	D 2783
Brookfield Viscosity, 150,000 cP max. @ °C	-	-37	-28	D 2983
Channel Point, °C	<-50	<-50	<-50	

[Visit](#) your nearest Shell Associate or Reseller for more details.

Need more product information? Please the [Shell Customer Service Centre](#) at 1-800-661-1600
or e-mail us at questions@shell.com

MSDS requests? Please call 1-800-661-1600 or fax your request to (403) 691-3997

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