Mobil

# Mobilarma 500 Series

Mobil Industrial , Austria

Rust Protection Lubricants

## Product Description

Mobilarma 500 Series oils are premium performance products primarily intended as run-in or lay-up lubricants, which provide effective rust preventive films on the internal surfaces of machinery. They are particularly suitable as run-in lubricants for diesel and gasoline engines. The oils displace water from metal surfaces and form strong water-resistant films on the metal surfaces to prevent rust and corrosion. The Mobilarma Series oils absorb the water in systems into a water-in-oil emulsion so that the contact surfaces of the machinery still get satisfactory lubrication. Their high level of chemical stability and their anti-wear and detergent properties make them suitable as high quality short-term lubricants.

In most applications, the residual rust preventive films need not be flushed away when the assembly is filled with lubricating oil or hydraulic fluid and put back in service. However, flushing with a charge of lubricating oil to remove the Mobilarma product or its residual film, is recommended if:

1. The Mobilarma does not provide the required lubricant characteristics to operate the equipment at rated loads and temperatures
2. Draining of the equipment is difficult and considerable pockets of the Mobilarma cannot be easily removed
3. Contamination of the system oil by the Mobilarma could reduce the lubrication performance characteristics (examples; Mobilarma could increase Freon cloud points in compressors or water-in-oil emulsions reduce anti-wear characteristics in high pressure hydraulic systems)
4. Presence of the rust preventive agents reduces the ability of the new oil to separate water in turbine and similar equipment.

## Features and Benefits

The Mobilarma 500 Series oils provide an excellent lubricant that also acts as a rust preventive. This allows safe lay-up of equipment that will not be used immediately but may be operated intermittently at low to moderate loads for short periods of time. These products provide excellent rust preventive performance reducing any potential damage that could otherwise occur in non-operating equipment. This saves clean-up and potential rigorous flushing procedures prior to placing the equipment back in service.

| Features | Advantages and Potential Benefits |
|---|---|
| Excellent Rust and Corrosion Protection | High level protection against rust during seasonal lay-ups<br>Reduced clean-up time required to place equipment back into production<br>Displaces water from metal surfaces and form tenacious protective films |
| Effective Anti-Wear Properties | Protects equipment against wear |
| Dual Purpose Lubricant/Rust-Preventive Nature | Reduced costs and time for run-in, testing or adjustment procedures<br>Eliminates unnecessary flushing and draining steps |

## Applications

- Run-in oil and lay-up oil for engines and industrial equipment
- Turbines that will be out of service for long periods
- Hydraulic systems where water is present and the formation of emulsions will not effect operation
- Test calibration oil

## Typical Properties

| Mobilarma 500 Series | 522 | 524 |
|---|---|---|
| Viscosity, ASTM D 445 | | |
| cSt @ 40° C | 28.8 | 88.4 |
| cSt @ 100° C | 5.0 | 10.5 |

| Mobilarma 500 Series | 522 | 524 |
|---|---|---|
| Viscosity Index, ASTM D 2270 | 95 | 95 |
| Pour Point, °C, ASTM D 97, max | -24 | -18 |
| Flash Point, °C, ASTM D 92, min | 182 | 218 |
| Density @ 15.6° C, Calculated, lbs/gal | 7.3 | 7.36 |

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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