# **Mobil**<sup>®</sup>

## Mobilarma 500 Series

Mobil Industrial , Singapore

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 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 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 emuls 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 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 s 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 pc 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 immediat may be operated intermittently at low to moderate loads for short periods of time. These products provide excellent rust preventive performance reducing any pc damage that could otherwise occur in non-operating equipment. This saves clean-up and potential rigorous flushing procedures prior to placing the equipment the 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 |
| Viscosity Index, ASTM D 2270   | 95   | 95   |
| Pour Point, °C, ASTM D 97, max | -24  | -18  |

| Mobilarma 500 Series                   | 522 | 524  |
|--|-----|------|
| Flash Point, °C, ASTM D 92, min        | 182 | 218  |
| Density @ 15.6° C, Calculated, lbs/gal | 7.3 | 7.36 |

#### Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.as

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06-2021 ExxonMobil Asia Pacific Ltd 1 HarbourFront Place #06-00 HarbourFront Tower One Singapore 098633

#### +65 6885 8000 http://www.exxonmobil.com

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All primary not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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