

## PRODUCT INFORMATION

### CO AW

#### Description

CO AW is an alkaline marine crankcase lubricant for low-speed marine two-stroke crosshead diesel engines.

#### Application

CO AW is primarily a crankcase lubricant for low-speed marine diesel crosshead engines running on residual fuel. It is also suitable for plain bearings of turbochargers, shaft bearings, stern tube and seals. In addition, the alkalinity is sufficient to neutralize crankcase contaminations or acidic combustion products in a less demanding four-stroke trunk piston diesel engine running on distillate fuel.

CO AW is used in selected stationary engines. Please contact your sales representative to seek assistance and more information.

#### Features/Advantages and Benefits

- Excellent thermal and oxidation stability and detergency
  - Excellent deposit control of oil-cooled piston undercrown
  - Clean crankcase
- Extended oil life due to efficient water separating properties
- Rust and corrosion prevention properties
- Good wear protection
- Approved by major engine manufacturers

#### Typical Characteristics

| Grade Name | Pour point<br>°C | Flash point (COC)<br>°C, min | Viscosity at 100°C<br>cSt | SAE | Base number<br>mgKOH/g |
|------------|------------------|------------------------------|---------------------------|-----|------------------------|
| CO AW      | -6               | 220                          | 11.5                      | 30  | 6                      |

## Health and Safety

The Safety Data Sheet is available on request and describes the product in terms of safety in use, handling and transport. The product is not classified as dangerous according to the Regulations 1907/2006 and 1272/2008 or the Directive 1999/45/EC. When used as intended, this product does not pose significant health risks. Repeated exposure may cause skin dryness or cracking. In case of skin contact, immediately wash the affected area with plenty of soap and water. Remove contaminated clothes.

## Handling and Packaging

The compatibility and miscibility with comparable products from other suppliers have been tested successfully by an independent institute. In order to benefit from full product performance the mixing of lubricants should be limited to a minimum.

The condition of the circulating oil of a low-speed marine two-stroke crosshead diesel engine should be maintained in accordance with the equipment manufacturers' instructions with a centrifugal purifier to remove water or insoluble components.

The product is available in bulk and drums of approximately 205 litres.

## Further Information

For further information about LLK Marine Rus please contact any representative of LLK Marine Rus or visit our website [www.lukoilmarine.com](http://www.lukoilmarine.com).

**LLK Marine Rus**

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This data sheet and the information given are considered to be accurate to the best of our knowledge. While the physical and chemical characteristics are typical of current production and compliant to specification of «LLK International», variations in these characteristics may occur. No warranty expressed or implied, is given as to the accuracy or completeness of the information or suitability of the products. «LLK International» and the distributor shall not be responsible for any damage or injury resulting from abnormal use of the product. The user will be always responsible to evaluate and use products safely and to comply with all applicable laws and regulations. Furthermore «LLK International» shall not be liable for any loss or damage resulting from any error or omission in this document.