

# MARWAY 4040

## Marine diesel engine oil

### Product description

MARWAY 4040 is a trunk piston diesel engine oil recommended for heavily loaded marine engines operating on heavy oil with a high sulphur content, where an oil complying with TBN 40 and SAE 40 is required.

### Application areas

MARWAY 4040 is recommended for heavily loaded marine trunk piston diesel engines that operate on fuels with a high sulphur content, so-called residual oil, where the requirements are an oil complying with TBN 40. The oil is also suitable for the lubrication of most marine reduction gears associated with the engine type, as well as for general lubrication. We recommend that MARWAY 4040 is continuously filtered between oil change intervals; refer to the manufacturer's instructions. MARWAY 4040 should not be used for operation with low-sulphur fuel, for which a lower TBN is recommended.

### Characteristics and advantages

MARWAY 4040 is an alkaline high performance oil with additives to keep the engine clean and minimise deposits on the pistons. The product has high stability with regard to heat and oxidation, which minimises the degradation of oil at high operating temperatures and prolongs engine life. MARWAY 4040 contains additives with anti-rust and water separating properties. MARWAY 4040 also protects against corrosion by effectively neutralising acidic combustion residues.

### Tests and approvals

Fulfills: MAN B&W, Wärtsilä Sulzer

### Handling and storage

Avoid skin contact. In the event of contact with skin, wash with soap and water. Dispose of used oil at a recycling station or equivalent. Safety data sheets are available for professional users and are supplied on request.

### Typical Data

Characteristics	Typical value	Unit	Method
Density at 15°C	909	kg/m <sup>3</sup>	ISO 12185
Flash point COC	235	°C	ISO 2592
Pour point	-24	°C	ISO 3016
TBN	40	mg KOH/g	ASTM D 2896
Viscosity at 40°C	130	mm <sup>2</sup> /s	ISO 3104
Viscosity at 100°C	13.6	mm <sup>2</sup> /s	ISO 3104
Viscosity index	101	-	ISO 2909

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