

# PRODUCT & TECHNICAL DATA

## CASTROL MLC RANGE

### Diesel engine lubricants

#### DESCRIPTION

MLC is a standard diesel engine lubricant formulated with quality base oils and well-proven additives.

#### APPLICATIONS

MLC with a BN of 12 mg/KOH/g provides the level of detergency needed to accommodate the conditions found in traditional trunk-piston marine diesel engines and the effects of burning poorer quality distillate fuels.

#### FEATURES/BENEFITS

The diesel detergency performance of MLC meets the requirements of API-CD. Its load carrying properties meet load stage 11 of the FZG A/8.3/90 test.

Oxidative corrosion and thermal stability are adequate for traditional and less demanding engines.

#### APPROVALS STATUS

MLC 30 and 40 oils are widely approved for use in medium-speed propulsion and generator engines operating on distillate fuels.

#### CARE AND HANDLING

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

#### PACKAGING AND STORAGE

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

#### TECHNICAL DATA

TYPICAL CHARACTERISTICS	UNIT	TEST METHOD	VALUE	VALUE
MLC			30	40
SAE Grade			30	40
Density @ 15°C	g/ml	ASTM D4052	0.895	0.900
Viscosity @ 100°C	cSt	ASTM D 445	11.5	14.0
Base Number	mgKOH/g	ASTM D2896	12	12
Closed Flash Point	°C	ASTM D93	>200	>200
Pour Point	°C	ASTM D97	<-12	<-12

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.



# PRODUCT & TECHNICAL DATA

## GENERAL ADVICE

Further information on all Castrol Marine lubricants is available from any Castrol Marine office or from:

Castrol Marine      [www.castrolmarine.com](http://www.castrolmarine.com)  
Technology Centre  
Whitchurch Hill  
Pangbourne  
Reading RG8 7QR  
United Kingdom

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet.

It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material.

All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol and the Castrol logo are the trade marks of Castrol Limited, used under licence.

© 2009 BP Marine Limited. All rights reserved.