



MDEO RANGE (12 & 15 TBN)

Marine Diesel Engine Oil

Issue: December 2014

Product Code	Pack Size	Ctn / Qty
MDEO3012205	205 Litre	1
MDEO4012205	205 Litre	1
MDEO4015205	205 Litre	1



PENRITE

Description

Penrite MDEO oils are heavy duty, low to medium speed, marine diesel engine oils manufactured from highly refined base stocks and modern technology additives. These oils are high in detergency and dispersancy and also contain effective anti-wear and anti-oxidant additives.

Penrite MDEO oils are available in a range of SAE grades and TBN (Total Base Number), to suit a wide variety of end uses and fuel types. They meet the engine oil performance requirements of API CF.

Application

MDEO 3012 and **4012** (12 TBN oils) and **MDEO 4015** (15 TBN oils) are designed for use in the crankcase of medium speed marine crosshead diesel engines and trunk piston diesel engines, including turbocharged, operating on diesel or light residual fuels such as MDF (Marine Diesel Fuel). They can also be used as a system oil in slow speed crosshead engines with separate lubricators.

Product Benefits

- Rapid neutralisation of acidic by-products
- Excellent water separability
- Superior anti-wear performance
- Resist oxidation
- Controls piston deposits
- Controls liner lacquering

Industry Specifications

API CF

Typical Data

	3012	4012	4015
SAE Grade	30	40	40
Total Base Number	12	12	15
Viscosity @ 40°C, cSt	104	162	146
Viscosity @ 100°C, cSt	11.5	15.5	14.4
Viscosity Index	96	96	96
Sulphated Ash, mass %	1.7	1.7	1.9
Pour Point Maximum, °C	-15	-15	-15
Zinc Content, mass %	0.05	0.05	0.05

Information in this sheet is based on recent production. Minor variations to typical properties are expected in normal manufacture and do not affect product performance. An MSDS is available on request.



PENRITE OIL COMPANY PTY LTD, 88 Lewis Road, Wantirna South
 Victoria AUSTRALIA 3152, ABN 25 005 001 525
 Enquiries: Phone 1300-PENRITE (1300 736 748)
 Fax: 1800-PENRITE (1800 736 748)
 International: Phone: 61 3 9801 0877, Fax: 61 3 9801 0977
 New Zealand Ph: 0800 533 698, Fax: 0508 736 748
 United Kingdom and EU Ph: +44 (0) 1594 562357, Fax: +44 (0) 1594 564234
 Website: www.penriteoil.com, Email: penrite@penriteoil.com

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