



Energol HPDX
Lubricant for Medium/High Speed Diesel Engines

Applications

Energol HPDX is a new generation Super High Performance Diesel (SHPD) engine oil for highly rated diesel engines operating under the most severe conditions. ; Energol HPDX provides maximum extended drain service when required in accordance with engine manufacturers' recommendations.

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Main Benefits

- Superior extended oil drain capability
- Excellent lubricating properties in high thermal load conditions; - Excellent protection against wear and bore polishing
- Superior high temperature performance minimises deposit and lacquer formation

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Specifications

Energol HPDX 40 meets or exceeds the following specifications and/or engine manufacturer approvals:

ACEA E3-96 (tested on 15W-40 version)
API CF
Caterpillar CMOT
Deutz MWM
Mercedes Benz 228.2 (tested on 15W-40 version)
MAN 3275 (tested on 15W-40 version)
MTU (Category 2 and 1500 hr drain interval approval)
Rolls Royce (incl. 5000 series engines)
Ruston
Wartsila
Volvo VDS-2 (tested on 15W-40 version)
Qualified to Min. of Defence OMD 113 and Nato O-278

Energol HPDX 30 has the same performance credentials in respect of API CF and ACEA E3-96 but it has not been found necessary to submit this SAE 30 grade for formal OEM approval from the above engine builders.

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.

Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

BP p.l.c. or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

Typical Characteristics

	Test Methods	Units	Grade :	
			30 40	
Density at 15 °C	ISO3675/ASTM D1298	kg/m ³	890	900
Kinematic Viscosity at 100 °C	ISO3104/ASTM D445	mm ² /s	11.5	14
Pour Point	ISO3016/ASTM D97	°C	-9	-9
Flash Point (PMC)	ISO 2719/ASTM D93	°C	220	227
Total Base Number	ISO 3771/ASTM D2896	mgKOH/g	12	12
FZG Load Stage	DIN 51 354	-	12	12

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

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