



## **BP O-278**

Navy diesel engine oil

### **Description**

BP O-278 is a high quality monograde diesel engine oil uniquely formulated for use on naval surface vessels and submarines. The product meets specific performance requirements as per US MIL-PRF-9000K.

### **Application**

BP O-278 was specifically developed for the unique operating conditions experienced by naval forces. It is recommended for use in all medium and high-speed diesel engines on naval surface vessels and submarines operating on marine distillate including F-76 naval fuels where MIL-PRF-9000K is specified.

### **Approval**

Qualified by the US Navy and identified in the DoD Qualified Products Database (QPD) against MIL-PRF-9000K. BP O-278 may also be identified as NATO code O-278, and Military Symbol 9250 L06.

### **Main Performance Features**

- Exceeds the detergency requirements of API CF, including testing with 0.4% and 1.0% sulphur fuel.
- Meets navy requirements for use in 2 stroke trunk piston engines.
- High level of gear lubrication performance: FZG scuffing stage 12.
- Caterpillar Micro-Oxidation test (CMOT) >90 mins.
- Does not contain phenolic anti-oxidants.
- Excellent demulsibility.
- Rust inhibited.
- Reduced maintenance and wear.
- Excellent engine cleanliness.
- Extended time between overhauls.
- Cleaner piston ring belts.
- Improved resistance to liner lacquering.
- Good anti-foam properties.

## Typical Characteristics

Name	Method	Units	BP O-278
Viscosity, Kinematic @ 100°C	ASTM D445	mm <sup>2</sup> /s	13
Density @ 15°C	ASTM D1298	g/ml	0.893
Flash Point, PMC	ASTM D93	°C	>220
Pour Point	ASTM D97	°C	<-15
Total Base Number, TBN	ASTM D2896	mg KOH/g	12
FZG Gear Test, A/8.3/90	DIN 51 354	FLS	12

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

## Packaging and Storage

Supplied in bulk, and drums of approximately 208 litres. Ensure drums are tightly resealed after use.

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

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BP Marine, Technology Centre, Whitchurch Hill, Pangbourne, Reading RG8 7QR, United Kingdom

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