

SCOTT MARINE POWER

High Performance Diesel Engines • Transmissions • Generators

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Engine Oils Approved by MAN
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Fuels, Lubricants and Coolants for MAN Diesel Engines
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Engine oils

Engine oils approved by MAN

Engine oils complying with factory standard are to be used for industrial and ship's diesel engines.

The choice of a suitable engine oil is based on the scheduled oil use period, the fuel quality used and the climate conditions at the place of deployment.

Always observe the oil change intervals specified in the operating manual or on-board service booklet / service booklet.

The permitted engine oils can be found on the Internet:

<http://www.man-mn.com/> → **Products & Solutions** → **E-Business**

Use of permitted engine oils

Engine model	MAN 270	MAN 271	M 3275	M 3277
D 02xx – aspirating engine	yes	yes	yes	yes
D 02xx – with turbocharger / intercooler	yes	yes	yes	yes
D 08xx – aspirating engine	yes	yes	yes	yes
D 0826 – with turbocharger / intercooler	yes	yes	yes	yes
D 0826/36 TE/LE 5..	no	no	yes	yes
D 0836 – with turbocharger / intercooler	yes	yes	yes	yes
D 0836 LE 4..	no	no	no	yes
D 28xx – aspirating engine	yes	yes	yes	yes
D 2866 TE, D 2866 LE 1..	no	no	yes	yes
D 2866 – with turbocharger / intercooler	yes	yes	yes	yes
D 2876 – with turbocharger / intercooler	yes	yes	yes	yes
D 2876 – with Common Rail	no	no	no	yes
D 2842 TE	no	no	yes	yes
D 284x – with turbocharger / intercooler	yes	yes	yes	yes
D 2842 LE 409 – two-stage turbocharging	no	no	yes	yes
D 284x – with Common Rail	no	no	no	yes

**Caution:**

Common-rail engines may only be operated with oils complying with works standard M 3277.

Single-grade engine oils

SAE 30 or 40 single-grade engine oils to works standard MAN 270 should be used only if multi-grade engine oils are not available or if the use of single-grade oils is explicitly required.

Heed the operating temperature range.

High-performance diesel engine oils

High-performance diesel engine oils to works standards M 3275 and M 3277 have a considerably higher performance level than engine oils to works standards MAN 270 and 271.

In turbocharged diesel engines in particular, high-performance diesel engine oils have major advantages in terms of piston cleanliness, wear and tear and power reserves. High-performance diesel engine oil are of course also suitable for non-turbocharged engines.

In the interest of greater engine life expectancy we recommend using such oils for turbocharged and non-turbocharged engines.



Caution:

In high-performance marine diesel engines, extreme operating conditions may lead to deposits in the charge-air area that reduce the engine output. For these engines, low-deposit engine oils complying with factory standard M 3277 are recommended in particular.

Conditions of approval

The approval for engine oils is valid for two years and can be extended by another two years at the request of the manufacturer / supplier provided that the quality of the oil in question has not changed.

Before purchasing a product, make sure that it is still approved by having the supplier produce the MAN letter of approval.

Engine oils without MAN approval

If in certain countries MAN-approved engine oils are not available, use only engine oils for which the manufacturer or supplier confirms in writing that their quality level complies at least with ACEA E2 (for MAN 270 / 271), ACEA E3/E5 (for M 3275) or ACEA E4 (for M 3277) or API-CF 4, CG 4 CH-4, CI-4.

If these engine oils are used, the oil change intervals specified in the operating manual or on-board service booklet / service booklet are to be reduced on agreement (consult MAN Nutzfahrzeuge AG, customer service).



Engine oils

Engine oils – US market

Engine oils approved by MAN for the US market

Permitted engine oils, complying with factory standard MAN 270		
Approval granted to	Product designation	Viscosity class SAE
ChevronTexaco Global Lubricants	Chevron Delo 400	SAE 30
	Chevron Delo 400	SAE 40
	Texaco Ursa Premium TDX	SAE 30
	Texaco Ursa Premium TDX	SAE 40
ExxonMobil	Mobil Delvac 1630	SAE 30
	Mobil Delvac 1640	SAE 40
Shell International	Shell Rimula X	SAE 30
	Shell Rimula X	SAE 40

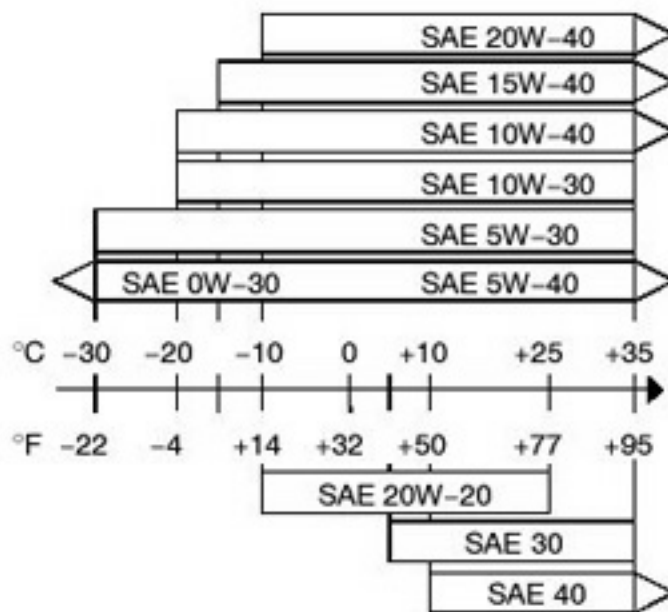
Permitted engine oils, complying with factory standard MAN 271		
Approval granted to	Product designation	Viscosity class SAE
Pennzoil-Quakerstate	Pennzoil Long-Life	SAE 15W-40
	Pennzoil Long-Life 2000	SAE 15W-40
	Pennzoil Long-Life 2000	SAE 20W-50

Permitted engine oils, complying with factory standard M 3275		
Approval granted to	Product designation	Viscosity class SAE
Caterpillar	Caterpillar Diesel Engine Oil	SAE 15W-40
ChevronTexaco Global Lubricants	Chevron Delo 400 Multigrade	SAE 15W-40
	Chevron RPM Heavy Duty Motor Oil	SAE 15W-40
	Texaco Ursa Premium TDX	SAE 15W-40
	Texaco Ursa Super Plus	SAE 15W-40
Shell International	Shell Rimula Premium	SAE 15W-40
	Shell Rimula X CH4	SAE 15W-40
	Shell Rotella T	SAE 15W-40

Permitted engine oils, complying with factory standard M 3277		
Approval granted to	Product designation	Viscosity class SAE
ExxonMobil	Mobil Delvac 1 SHC	SAE 5W-40
	Mobil Delvac XHP Extra	SAE 10W-40

SAE viscosity classes

SAE viscosity class is dependent on ambient air temperatures (see diagram).



Engine oil additives

Only engine oils which have been tested in accordance with works standards MAN 270, MAN 271, M 3275 and M 3277 and comply with these standards are approved for use in MAN diesel engines.

These oils are composed in such a way that they meet the engine requirements in every case if the specified oil change intervals are complied with.

Additives of any kind that are added **later** to the engine oil alter the engine oil in an unpredictable manner.

As the performance and maintenance overhead can be negatively influenced if additives of this nature are used, claims regarding deficiencies submitted to MAN Nutzfahrzeuge AG shall be void if the damage results from using such additives.



Mixing engine oils

In order to prevent a drop in performance of the engine oil used, and thus a reduction in the oil change interval, only engine oils with at least the same performance range should be mixed.

Engine oils from various manufacturers can be mixed and are compatible if used for the same area of application.

Oil change intervals

The oil change intervals are specified in the operating manual or on-board service booklet / service booklet.