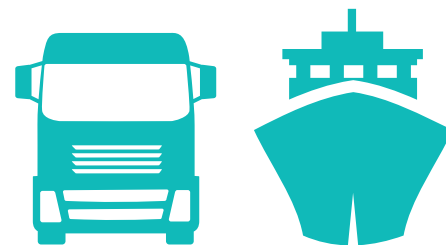


Eni MX 5264

HDDO & Marine Additive Package



Eni MX 5264 is a cascade additive package designed for blending high performance Heavy Duty Diesel Oils for all SAE grade from 10W-30 formulations.

APPLICATIONS & PROPERTIES

- Eni MX 5264 is an additive package for premium multigrade crankcase mineral lubricants when appropriate base stocks and viscosity modifiers are used.
- The core engine test programme has been performed in Eni base stocks according to ACEA/ATC/ATIEL Codes of Practice and API EOLCS/CMA Guidelines. Viscosity Modifier used in conjunction with Eni MX 5264 is the non-dispersant olefin copolymer (OCP) Eni VE 08.
- Eni MX 5264 used in conjunction with Eni MX 5450 can be used in marine lubricants.
- Grade SAE formulation covered: 10W-30, 10W-40, 15W-40, 15W-50, 20W-50 and monograde.

TREAT RATE & PERFORMANCE CLAIMS

HDDO Specification	Treat Rate % wt			
	7.5	8.7 monograde	9.3	10.8
API	CE/SG	CF/SG	CF-4 level/ CF/SG	CF-4 level/ CF/SG
ACEA		E2-96	B2-98 / E2-96	B2-98 / E2-96
Mercedes Benz		MB 228.0	MB 228.1 blanket approval	MB 228.3
MAN			MAN 271	MAN 271
Caterpillar		3600 level		
Volkswagen			VW 505 00 qual.	VW 505 00 qual.
Allison		C4 level		

Treat rates - Marine Application

7.5% + 2.5% Eni MX 5450	for marine and stationary diesel engines operated with low sulphur fuel (<1%) requiring 15 TBN. Eni finished lubricant approved by Wärtsila.
7.5% + 11.1% Eni MX 5450	for marine and stationary diesel engines operated with residual fuel to formulate lubricants with 40 TBN.



Eni MX 5264

HDDO & Marine Additive Package



TECHNICAL DATA

	Method	Unit	Value	
			min	max
Physical properties				
Appearance	-		clear liquid	
Density @ 15°C	ASTM D 4052	kg/m ³	975	
Viscosity @ 100°C	ASTM D 445	mm ² /sec	135	205
Flash Point	ASTM D 93	°C	100	
Chemical properties				
TBN	ASTM D 2896	mg KOH/g	82	115
Calcium	ASTM D 4951	% m	2.40	2.80
Magnesium	ASTM D 4951	% m	0.23	0.31
Zinc	ASTM D 4951	% m	0.85	1.05
Phosphorus	ASTM D 4951	% m	0.80	0.95
Nitrogen	ASTM D 5291	% m	0.68	0.97

HANDLING INFORMATION

- **storage:** the maximum handling and unloading temperature is 60°C; it is recommended that for long term storage the temperature should not exceed 50°C.
- **shelf life:** 24 months at ambient temperature and storage in adequate storage conditions (containers kept closed and set upright on pallets with the bungs on top. In case of open-air storage the drums on the top pallet must have a waterproof lid).
- **transport information:** the product is classified as not dangerous as far as naval, rail and road transportation is concerned.
- **safety & regulatory information:** please see safety data sheet in <https://msds.eni.com/AthosSDS/>

PACKAGING

- bulk
- IBC (1000 litres)
- drums (200 litres)

PRODUCTION SITE

Eni Robassomero plant
Via B. Buozzi 3
10070 Robassomero
Torino Italy



eni

for any information: eniadditives@eni.com