

# Marine MTX

## Medium Speed Marine Diesel Oil

### Features & Benefits

- Excellent water tolerance and separation
- Excellent resistance to thermal and oxidative degradation
- Alkaline reserve to prevent corrosion
- Good rust prevention ability
- Effective detergency to maintain system cleanliness
- Meets requirements of major medium speed engine manufacturers

**MARINE MTX** is premium oil designed for the lubrication of the medium-speed trunk type diesel engines in marine service. These oils are blended from top quality paraffinic base oils for their stability and high natural Viscosity Index (VI). They provide an optimum balance of detergency, oxidation and corrosion resistance, water tolerance and wear prevention. Trunk type engines use a single oil to lubricate the piston cylinder area as well as the crankcase and auxiliary equipment. This places a great deal of stress on the oil particularly because medium-speed engines are able to burn relatively dirty fuels which create a lot of acids and particulates. These contaminate the engine oil and quickly limit the oil's useful life unless some means were used to remove them. This is usually done with centrifuges which effectively separate soot, metal particles and water from the oil.

**MARINE MTX** oils have been properly formulated so that centrifuges do not remove the beneficial additives at the same time. The oil's alkaline reserve, measured by its Total Base Number (TBN), is used to neutralize the acids since centrifuging alone will not remove them. Engine oils in marine service are never changed; instead, fresh oil is added as oil is consumed in the cylinders. An equilibrium level of TBN is reached where the rate of addition of fresh oil balances the depletion rate of TBN in the existing oil but this equilibrium level depends on the fuel sulfur level and on the TBN of the fresh oil.

**MARINE MTX** offers a variety of TBN's to suit a wide range of fuel sulfur levels and oil consumption rates. Generally, 15 TBN oils are suitable for fuel sulfur levels up to 1.5%, 20 TBN oils are suitable for fuel sulfur levels up to 2.5%, and 30 TBN oils are suitable for fuel sulfur levels up to 3.5%.

### Sizes & Order Codes

Marine MTX 1530	Marine MTX 1540	Marine MTX 2030	Marine MTX 2040	Marine MTX 3030	Marine MTX 3040	Marine MTX 4040
205L Drum (54.2 US gal) F0031850	205L Drum (54.2 US gal) F0032650	205L Drum (54.2 US gal) F0033150	205L Drum (54.2 US gal) N.A	205L Drum (54.2 US gal) F0032160	205L Drum (54.2 US gal) N.A	205L Drum (54.2 US gal) N.A
1000L Cube (264 US gal) F0031860	1000L Cube (264 US gal) F0032660	1000L Cube (264 US gal) F0033160	1000L Cube (264 US gal) N.A	1000L Cube (264 US gal) F0032160	1000L Cube (264 US gal) F0032260	1000L Cube (264 US gal) F0050160
Bulk B0031801	Bulk B0032601	Bulk B0033101	Bulk B0033201	Bulk B0032101	Bulk B0032201	Bulk B0050101

### Typical Results

MARINE MTX	1530	1540	2030	2040	3030	3040	4040
<b>ASTM COLOR (D1500)</b>	3.5	3.5	3	3.5	3.5	4.0	4.0
<b>TBN (D664)</b>	15	15	20	20	30	30	40
<b>SAE GRADE</b>	30	40	30	40	30	40	40
<b>VISCOSITY (D445)</b>							
cSt @ 40°C	109.4	138.9	104.4	142.3	102	142.2	139.5
cSt @ 100°C	11.8	13.7	11.6	14.1	11.5	14.2	14.2
<b>VISCOSITY INDEX (D2270)</b>	96	95	98	95	99	97	99
<b>POUR POINT (D97) (°C)</b>	-20	-21	-12	-6	-12	-6	-6
<b>FLASH POINT (D92) (°C)</b>	219	201	223	215	215	223	217
<b>SULPHATED ASH (%WT.) (D874)</b>	1.65	1.65	2.7	2.7	3.9	3.9	5.25
<b>FZG LOAD STAGE (DIN 51354, A/8, 3/90)</b>	12	12	12	12	12	12	12
<b>DENSITY (D4052) Kg/L</b>	0.8988	0.9021	0.8998	0.9035	0.9056	0.9104	0.9147



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Supporting data available to demonstrate appropriate performance.  
Check with your Sales Representative for latest product approvals.  
Please note, these are typical performance indicators and can change without notice.  
This data sheet supersedes any previous version prior to 5/28/2018.