

Performance Par Excellence

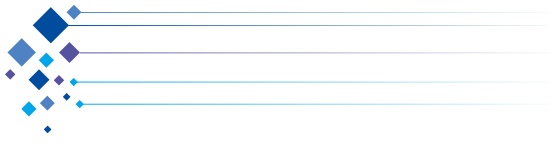
gandhar
Stay Ahead



Marine Engine Oils

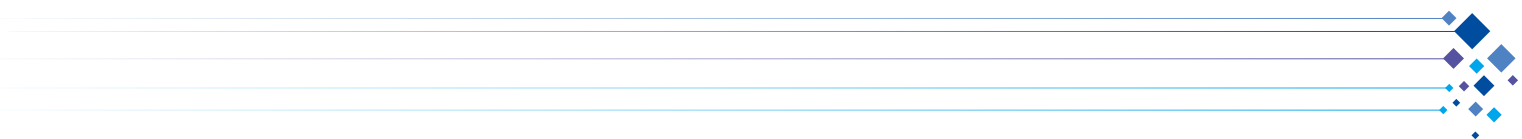
Industrial Oils

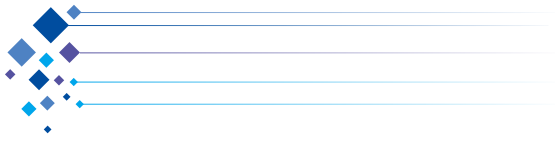
divyol
solutions within solutions



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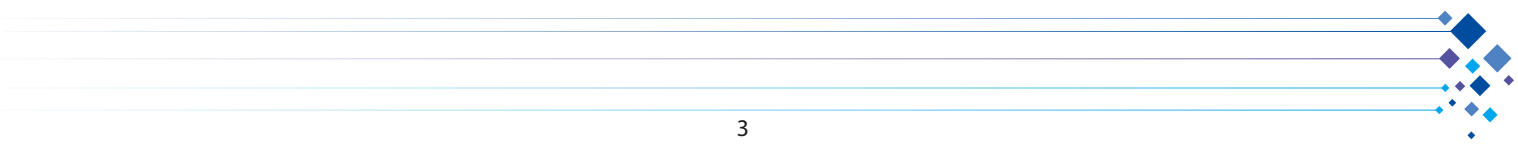
WIDE RANGE OF INDUSTRIAL OILS



MARINE ENGINE OILS

Smooth sailing all the way

These marine oils ensure that engines powering international and domestic trading vessels run reliably and efficiently. The oils are compliant with contemporary environmental stipulations with regard to oils for low- and medium-RPM engines.



DIVYOL MARINE DIESEL ENGINE OILS (SAE 40)

MDE 412 / 415 / 420 / 430

Applications:

Divyol Marine Diesel Engine Oils are lower to medium alkaline reserve (Base Number) trunk piston engine oils (TPEO). This blend was specially formulated for use in medium speed trunk piston engines burning distillate fuels with sulphur content up to 1% in marine or stationary power generation. It is also used in engine reduction gears.

Standards:

Divyol Marine Engine Oils conform to API CF performance specifications.

Advantages:

Divyol Marine Engine Oils' blend includes select detergent/dispersant additives which ensure efficient operation even in high temperatures. It helps prevent deposits in areas such as the under crown of the piston and the piston ring belt area, enabling piston rings to function efficiently. Due to its superior alkalinity retention, sufficiently high BN is maintained under all service conditions to ensure corrosive acids formed by the combustion of fuel sulphur are effectively neutralized, thereby minimizing liner wear. Its excellent demulsibility enables centrifuging of water with no loss of additive.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Marine Engine Oils			
			MDE 412	MDE 415	MDE 420	MDE 430
1	Appearance	Visual	Bright and clear	Bright and clear	Bright and clear	Bright and clear
2	Kinematic viscosity at 100 °C, cSt	ASTM D 445	12.5 – 16.5	14.4 – 16.5	14.5 – 16.5	14.5 – 16.5
3	Viscosity index, min.	ASTM D 2270	95	95	95	95
4	Flash point, °C, min.	ASTM D 92	230	230	230	250
5	Pour point, °C, max.	ASTM D 97	<-15	<-15	<-15	<-18
6	Sulphated ash	ASTM 874	2.1	2.4	2.5	3.70
7	TBN (Total Base No), mg KOH/g	ASTM D 2896	12.5	15	20	30

The above properties are typical values and do not constitute specification of the product.

Disclaimer: Gandhar makes no warranties, representation or conditions of any kind expressed or implied for use with respect to these products. Final determination of suitability of the product for the application contemplated by the users is solely their responsibility.

DIVYOL MARINE ENGINE OILS (SAE 30) MDE 310 / MDE 312

Applications:

Divyol Marine Engine Oils (SAE 30) are specially formulated trunk piston engine oils (TPEO). These oil blends possess lower to medium alkaline reserve (Base Number) and are designed for use in medium speed trunk piston engines burning distillate fuels with sulphur content up to 1% in marine or stationary service. They are also used in engine reduction gears.

Standards:

Divyol Marine Engine Oils conform to API CF performance standards.

Advantages:

Divyol Marine Engine Oils' blend includes select detergent / dispersant additives which ensure consistent performance even in high temperatures. It helps prevent deposits in areas such as the under crown of the piston and the piston ring belt area, enabling piston rings to function efficiently. Due to its superior alkalinity retention, sufficiently high BN is maintained under all service conditions to ensure corrosive acids formed by the combustion of fuel sulphur are effectively neutralized, thereby minimizing liner wear. Its excellent demulsibility enables centrifuging of water with no loss of additive.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Marine Engine Oils	
			MDE 310	MDE 312
1	Appearance	Visual	Bright and clear	Bright and clear
2	Kinematic viscosity at 100 °C, cSt	ASTM D 445	9.3 – 12.5	9.5 – 12
3	Viscosity index, min.	ASTM D 2270	95	95
4	Flash point, °C, min.	ASTM D 92	210	220
5	Pour point, °C, max.	ASTM D 97	-9	≤-12
6	Sulphated ash	ASTM 874	3.65	3.65
7	TBN (Total Base No), mg KOH/g	ASTM D 2896	10	12.5

The above properties are typical values and do not constitute specification of the product.

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DIVYOL MARINE ENGINE OILS (SAE 30)

Applications:

Divyol Marine Engine Oils (SAE 30) are a series of specially formulated lower to medium alkaline reserve (Base Number) trunk piston engine oils (TPEO). These oils are designed for use in medium-speed trunk piston engines burning distillate fuels with sulphur content up to 1% in marine as well as stationary power generation. They are also used in engine reduction gears.

Standards:

Divyol Marine Engine Oils (SAE 30) conform to API CF performance standards.

Advantages:

Divyol Marine Engine Oils' blend includes select detergent / dispersant additives which ensure consistent performance even in high temperatures. It helps prevent deposits in areas such as the under crown of the piston and the piston ring belt area, enabling piston rings to function efficiently. Due to its superior alkalinity retention, sufficiently high BN is maintained under all service conditions to ensure corrosive acids formed by the combustion of fuel sulphur are effectively neutralized, thereby minimizing liner wear. Its excellent demulsibility enables centrifuging of water with no loss of additive.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Marine Engine Oils			
			MDE 315	MDE 320	MDE 330	MDE 340
1	Appearance	Visual	Bright and clear	Bright and clear	Bright and clear	Bright and clear
2	Kinematic viscosity at 100 °C, cSt , min.	ASTM D 445	9.3 – 12.5	9.5 – 12.5	9.5 – 12.5	9.5 – 12.5
3	Viscosity index, min.	ASTM D 2270	95	95	95	95
4	Flash point, °C, min.	ASTM D 92	220	220	230	240
5	Pour point, °C, max.	ASTM D 97	≤-12	≤-15	≤-18	≤-22
6	Sulphated ash	ASTM 874	3.68	3.65	3.68	4.1
7	TBN (Total Base No), mg KOH/g	ASTM D 2896	15	20	30	40

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DIVYOL MARINE ENGINE OILS (SAE 40) MDE 440 / MDE 450 / MDE 455

Applications:

Divyol Marine Engine Oils MDE 440, 450 and 455 are higher alkaline reserve (Base Number) trunk piston engine oils (TPEO). These are designed for use in medium to slow speed trunk piston engines burning distillate fuels with sulphur content up to 1% in marine or stationary power generation. They are also used in engine reduction gears.

Standards:

Divyol Marine Engine Oils MDE 440, 450 and 455 conform to API CF specifications.

Advantages:

These TPEO blends include select detergent/dispersant additives which ensure consistent performance even in high temperatures. It helps prevent deposits in areas such as the under crown of the piston and the piston ring belt area, enabling piston rings to function efficiently. Due to its superior alkalinity retention, sufficiently high BN is maintained under all service conditions to ensure corrosive acids formed by the combustion of fuel sulphur are effectively neutralized, thereby minimizing liner wear. Its excellent demulsibility enables centrifuging of water with no loss of additive.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Marine Engine Oils		
			MDE 440	MDE 450	MDE 455
1	Appearance	Visual	Bright and clear	Bright and clear	Bright and clear
2	Kinematic viscosity at 100 °C, cSt	ASTM D 445	14.5 – 16.5	14.5 – 16.5	14.5 – 16.5
3	Viscosity index, min.	ASTM D 2270	95	95	95
4	Flash point, °C, min.	ASTM D 92	240	240	240
5	Pour point, °C, max.	ASTM D 97	<-18	<-18	<-20
6	Sulphated ash	ASTM 874	4.76	6.5	6.57
7	TBN (Total Base No), mg KOH/g	ASTM D 2896	40	50	55

The above properties are typical values and do not constitute specification of the product.

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DIVYOL MARINE ENGINE OILS (SAE 50) MDE 560 / MDE 565 / MDE 570

Applications:

Divyol Marine Engine Oils (SAE 50) are high TBN oils specifically formulated for the cylinder lubrication of two-stroke, slow speed, cross head engines. They are available with TBN of 60, 65 and 70 and can be used with residual fuel.

Advantages:

Divyol Marine Engine Oils (SAE 50) have a unique patented chemistry designed for optimum performance including a host of benefits. It is a premium single oil solution designed to lubricate 2-stroke engines using fuels and is validated for dual fuel operation. It possesses excellent anti-wear properties which extends the service life of components. It neutralizes combustion acid, has very good film strength and keeps engine parts clean and without harmful deposits.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Marine Engine Oils		
			MDE 560	MDE 565	MDE 570
1	Appearance	Visual	Bright and clear	Bright and clear	Bright and clear
2	Kinematic viscosity at 100 °C, cSt	ASTM D 445	16.3 – 21.5	16.3 – 21.5	16.3 – 21.5
3	Viscosity index	ASTM D 2270	95	95	95
4	Flash point, °C	ASTM D 92	>210	>210	>210
5	Pour point, °C	ASTM D 97	≤6	≤6	≤6
6	Sulphated ash	ASTM 874	7.0	7.0	7.0
7	TBN (Total Base No), mg KOH/g	ASTM D 2896	60	65	70

The above properties are typical values and do not constitute specification of the product.

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Gandhar Oil Refinery (India) Limited

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, GMP Certified, NABL Accreditation and Government Recognized Three Start Export House

Registered Office

18th Floor, DLH Park, S. V. Road, Goregaon (W), Mumbai 400062, India. | Phone: +91-22-40635600 | Fax: +91-22-40635601
Email: sales@gandharoil.com | Website: www.gandharoil.com

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Guwahati | Varanasi | Hapur | Dharamtar | Jaigarh | Kandla | Surat (Magdalla) | Navlakhi | Krishnapatnam | Vishakapatnam | Gangavaram

Plants

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