



11 - SERIES

Formulated from High Viscosity Index (HVI) base oil with additives, specially designed for medium speed diesel engine.

MEDRIPAL 11 series has sufficient TBN to neutralize combustion acid; provides optimum protection against rust, corrosion & excessive wear; has a good balance between oxidation stability, detergency and dispersancy to prevent piston deposit formation and maintain engine cleanliness; and also able to easily separate from dirt and water through centrifugal separator.

Diformulasikan dari base oil *High Viscosity Index* (HVI) dengan aditif yang didesain khusus untuk pelumas mesin diesel putaran sedang.

MEDRIPAL 11 series memiliki nilai TBN yang memadai untuk menetralkan asam hasil pembakaran; memberikan perlindungan optimal terhadap karat, korosi dan keausan berlebih; memiliki keseimbangan yang baik antara kestabilan oksidasi, *detergency* dan *dispersancy* untuk mencegah pembentukan deposit pada piston dan menjaga kebersihan mesin dan juga dapat terpisah dengan mudah dari kotoran dan air melalui *centrifugal separator*.

Typical Characteristics

Characteristics	Test Method	MEDRIPAL 311	MEDRIPAL 411
SAE Viscosity Grade	-	30	40
Density at 15 °C, kg/L	ASTM D4052	0.8911	0.8956
Kinematic Viscosity at 40 °C, cSt	ASTM D7279	106.8	145.6
at 100 °C, cSt	ASTM D7279	11.82	14.45
Viscosity Index	ASTM D2270	99	97
Flash Point, °C	ASTM D92	268	272
Pour Point, °C	ASTM D97	-18	-18
Total Base Number, mg KOH/g	ASTM D2896	12	12

SPECIFICATIONS / APPROVALS

- Yanmar
- API CF

SPESIFIKASI / APPROVAL

- Yanmar
- API CF

APPLICATIONS

MEDRIPAL 11 series is designed for medium speed trunk piston industrial and marine diesel engines for burning distillate diesel fuel with sulphur content less than 0.5 % weight.

MEDRIPAL 11 series can also be used for gear, variable pitch propeller, and deck machineries.

PENGUNAAN

MEDRIPAL 11 series didesain untuk pelumasan mesin diesel industri dan perkapalan putaran sedang tipe *trunk piston* yang menggunakan bahan bakar jenis distilat dengan kandungan sulfur di bawah 0,5 % berat.

MEDRIPAL 11 series juga direkomendasikan untuk roda gigi, *variable pitch propeller* dan mesin di dek kapal.