



MEDRIPAL 30 SAE 30, 40

MEDRIPAL 30 Series are formulated from HVI (High Viscosity Index) base oils with a well balanced additive package especially designed for diesel engine lubricant.

MEDRIPAL 30 Series have 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 dirts and water at centrifugal separator. MEDRIPAL formulation also containing anti foam additive to prevent foaming.

MEDRIPAL 30 Series ini diformulasikan dari bahan dasar yang mempunyai Viskositas Index Tinggi (High Viscosity Index) dengan bahan aditif yang didesain khusus untuk pelumas mesin diesel.

MEDRIPAL 30 Series memiliki nilai TBN yang memadai untuk netralisasi asam hasil pembakaran; memberikan perlindungan optimal terhadap karat, korosi dan keausan berlebih; memiliki keseimbangan yang baik antara ketabilan oksidasi, detergency dan dispersancy untuk mencegah pembentukan piston deposit dan menjaga kebersihan mesin; dan juga dapat terpisah dengan mudah dari kotoran dan air melalui centrifugal separator. Formula MEDRIPAL juga telah mengandung aditif anti pembusaan.

TYPICAL CHARACTERISTICS			
Characteristics	Test Method	MEDRIPAL 330	MEDRIPAL 430
SAE Viscosity Grade		30	40
Density at 15 °C, kg/l	ASTM D - 4052	0.8994	0.9032
Kinematic Viscosity at 40 °C, cSt at 100 °C, cSt	ASTM D - 445	107.00	152.60
Viscosity Index	ASTM D - 445	11.83	14.94
ASTM Colour	ASTM D - 2270	98	97
Flash Point, °C	ASTM D - 1500	L 5.5	L 6.0
Pour Point, °C	ASTM D - 92	240	248
Total Base Number, mg KOH/g	ASTM D - 5950 ASTM D - 2896	-18 30	-18 30

PERFORMANCE LEVELS

MEDRIPAL 30 Series meet performance level of API CF. **MEDRIPAL 430** is approved by Wartsila for Wartsila Vasa 22/26/32, Wartsila 20/26/32/38/46/64 and Sulzer Z40/ZA40/ZA40S.

APPLICATIONS

MEDRIPAL 30 Series are recommended for lubrication of highly rated medium speed industrial and marine diesel engines using residual diesel fuel with sulphur content up to 1% wt.

TINGKATAN MUTU

MEDRIPAL 30 Series memiliki tingkatan mutu API CF. **MEDRIPAL 430** telah mendapatkan approval dari Wartsila untuk jenis mesin Wartsila Vasa 22/26/32, Wartsila 20/26/32/38/46/64 dan Sulzer Z40/ZA40/ZA40S.

PENGGUNAAN

MEDRIPAL 30 Series disarankan untuk mesin-mesin diesel perkapalan dan industri dengan putaran menengah yang memakai bahan bakar berkadar sulfur sampai dengan 1% wt.