

INA Rubella

General Description - Application

INA Rubella is premium quality combined cylinder and crankcase marine mineral engine oil for medium-speed diesel engines without crosshead, operating on residual fuels with sulphur content up to 3.5 % w/w. Also, it is suitable for lubrication of gearboxes, stern tube lubrication, deck machinery etc.

It contains special additives which provide superior oxidation and thermal stability, detergency/dispersancy, rapid neutralisation of acidic combustion products and full corrosion protection of steel and bearing metal parts in the presence of seawater.

Performance Level – Specifications

API CF
SAE J300 Apr13
INA N 22-281 (SAE 30)
INA N 22-282 (SAE 40)

Approval

Pielstick (SAE 30 & 40)

Properties	INA Rubella		Method
	30	40	
Density at 15 °C, g/cm ³	0,905	0,910	ASTM D 4052
Kinematic viscosity at 100 °C, mm ² /s	11,7	14,5	ISO 3104
Viscosity Index	97	96	ISO 2909
Dynamic viscosity (HTHS), mPa·s	3,6	4,2	CEC L-36-A-90
Flash point, °C	240	250	ISO 2592
Pour point, °C	-27	-24	ISO 3016
Total base number (TBN), mg KOH/g	30,0	30,0	ISO 3771
Sulphated ash, % (m/m)	3,80	3,80	ISO 3987
Foaming, tendency/stability, mL			ISO 6247
- at 24 °C	0/0	0/0	
- at 94 °C	10/0	10/0	
- at 24 °C after 94 °C	0/0	0/0	
FZG, failure load stage	12	12	ISO 14635-1

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.