

INA Rubella X

General Description - Application

INA Rubella X is premium quality combined cylinder and crankcase marine mineral engine oil for medium-speed diesel engines without crosshead, burning residual fuels, which because of severe conditions require additional oil alkalinity.

It contains special additives to maintain highest oxidation and thermal stability, detergency/dispersancy reserve and full corrosion protection of steel and bearing metal parts in the presence of seawater.

High alkaline reserve provides rapid neutralisation of acidic combustion products and gives long-term engine protection.

Performance Level – Specifications

API CF

SAE J300 Apr13

INA N 22-279 (SAE 30)

IAN N 22-280 (SAE 40)

Properties	INA Rubella X		Method
	30	40	
Density at 15 °C, g/cm ³	0,910	0,915	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	40,0	40,0	ISO 3771
Sulphated ash, % (m/m)	5,00	5,00	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.