

# TOTAL



## RUBIA G 13

ZINC FREE OIL FOR GM/EMD  
AND GENERAL ELECTRIC DIESEL ENGINES

### USES

- **TOTAL RUBIA G 13** is suitable for GM/EMD and General Electric Diesel engines fitted on railroad locomotives and on industrial applications ( Power generation, offshore well drilling rigs, marine propulsion, ...)

- **TOTAL RUBIA G 13** is a lubricant meeting Generation 4 specification defined by the LMOA (Locomotive Maintenance Officers Association).

### PROPERTIES

- Monograde  
- Anticorrosive and antirust properties  
- Very good oxidation resistance enabling the protection of the engines when running idle or under rough operating conditions (hot climate, mountain areas, heavy duties, ...)

- Very good TBN retention in operation  
- Specially formulated for GM/EMD engines equipped with silver bearings (Does not contain any zinc) and for GE engines.  
- Highly effective detergent-dispersant additive systems.

### CHARACTERISTICS

RUBIA G 13	Units	SAE Grade <b>40</b>
Volumetric mass at 15°C	kg/m <sup>3</sup>	896
Viscosity at 40°C	mm <sup>2</sup> /s	159
Viscosity at 100°C	mm <sup>2</sup> /s	15.5
Viscosity index	-	99
Flash point Cleveland	°C	206
Pour Point	°C	-9
TBN	mgKOH/g	13
Zinc content	ppm	10 maxi

*The typical characteristics mentioned represent mean values.*

### SPECIFICATIONS

GENERAL MOTORS - ELECTRO-MOTIVE DIVISION / GENERATION 5  
GENERAL ELECTRIC - GENERATION 4 LL (Long Life)  
API CD

This lubricant, when used in accordance with our recommendations and for the application for which it is intended, does not constitute a special hazard

A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant

