



# LUBRICANTS™

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## HP RAIL ROAD OIL 713

Zinc Free Rail Road Engine Oil-Generation IV

### DESCRIPTION

HP RAIL ROAD OIL 713 is a generation-4 Zinc free crankcase oil for all locomotives including EMD, GE & ALCO.

### APPLICATIONS

Recommended for use in all types of locomotives operating in Indian Railways. Absence of Zinc in the oil makes it ideal for use in diesel locomotives fitted with Silver components.

### FEATURES & BENEFITS

- Resistance to deposits on engine parts
- Exceptional thermal and oxidation stability
- Absolute control of corrosive wear

### MEETS REQUIREMENTS OF

API CF, LMOA Generation-IV & E-DL 2 of IS:13656:2014

### PHYSICO-CHEMICAL PROPERTIES (TYPICAL)

Kinematic Viscosity, @ 100°C, cSt	16
Viscosity Index	90
Flash Point, (COC) °C	225
Pour Point, °C	-6
Sulphated Ash % wt.	1.6
TBN, mg KOH/g	13

### APPROVED BY

RDSO for use in all types of locomotives operating in Indian Railways, L&T for detroit DG sets