



# Excelmotive ZF 20W-40

Mineral oil-based zinc-free diesel engine oil

Product code: M375

## Product Description:

Excelmotive ZF 20W-40 is a zinc free medium speed multigrade diesel engine oil. Excelmotive ZF 20W-40 is manufactured from highly solvent refined base oils, pour point depressant, and the recommended Oloa 2000 additive pack. A shear stable viscosity index improver has also been incorporated to provide the necessary multigrade characteristics.

## Benefits:

- Fully approved by EMD
- Fully approved by GE
- Zinc free formulation, designed to protect the silver wrist pin bearings on EMD engines
- Suitable for highly rated engines operating under arduous conditions using low to moderately high sulphur fuels
- Excellent soot handling and corrosion protection
- Superior oil filter life
- Unsurpassed engine cleanliness

## Applications:

Excelmotive ZF 20W-40 is suitable for a wide range of railroad, inland marine, and stationary engine applications.

Excelmotive ZF 20W-40 has been developed for the lubrication of General Motors – Electro Motive Division (EMD) engines. It is also suitable for certain General Electric and ALCO engines.

## Product Specification:

API	CF-2
LMOA Generation V	Exceeds the requirements
General Motors specification for EMD MI 1761 Alco engines	Meets the requirements

Excelmotive ZF 20W-40 is formulated to meet the engine oil specification described in Maintenance Instruction MI 1761 Rev F.

## Typical Test Data:

Specific Gravity @ 15.6°C	0.886
Kinematic Viscosity @ 100°C (cSt)	14.92
Kinematic Viscosity @ 40°C (cSt)	136.04
Viscosity Index	111
Flash Point COC (°C)	225
Pour Point (°C)	-18
TBN (mg KOH / g)	13.82