

#### 4500 H. P. DIESEL LOCOMOTIVE

# Designed and Built for

## CANADIAN NATIONAL RAILWAYS

BY ELECTRO-MOTIVE DIVISION . GENERAL MOTORS . LA GRANGE ILLINOIS

This General Motors model F3 Diesel locomotive consists of three units, each equipped with one 16-cylinder, V-type, 2-cycle GM Diesel engine having a bore of  $8\frac{1}{2}$ ", stroke 10" and a unit fuel injection system. The engines are rated a full 1500 horse-power for propulsion at 800 RPM, providing a total of 4500

horsepower for the locomotive. Each engine is directly coupled to a DC-AC generator. Alternating current powers auxiliary equipment. Direct current is fed through control apparatus to the twelve traction motors—two per truck—geared directly to the axle and wheel assembly.

## SPECIFICATIONS

# **DIMENSIONS** (per unit)

Overall length over couplers, lead unit	50'-8"
Overall length over couplers, booster unit	50'-0"
Maximum width over grab irons	
Maximum height above rail	
Distance between truck centers	
Truck rigid wheel base	
Wheel diameter	40"

# SUPPLIES (per unit)

200 gals.
16 cu. ft.
200 gals.
230 gals.
215 gals.

## WEIGHTS (per unit)

WEIGHTS (per only)	
Total weight, fully loaded, approximately230,000	lbs.
Car body and equipment154,400	Ibs
Trucks (2)75,600	lbs.
Maximum tractive effort at rim of wheel at	
25% adhesion, per unit	lbs.

