

GENERAL MOTORS  
LOCOMOTIVES



3000 H.P. DIESEL LOCOMOTIVE . . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS . . LA GRANGE, ILLINOIS, U. S. A.

## 3000 H. P. DIESEL LOCOMOTIVE

*Designed and Built for*

**MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RAILROAD**

BY ELECTRO-MOTIVE DIVISION • GENERAL MOTORS • LA GRANGE, ILLINOIS

This General Motors model F3 Diesel locomotive consists of two lead units, each equipped with one 16-cylinder, V-type, 2-cycle GM Diesel engine having a bore of 8½", stroke 10" and a unit fuel injection system. The engines are rated a full 1500 horsepower for propulsion at 800 RPM providing a total of 3000

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 eight traction motors—two per truck—geared directly to the driving axles. There are two four-wheel trucks per unit.

### SPECIFICATIONS

#### **DIMENSIONS (per unit)**

Overall length over couplers.....	50'-8"
Maximum width over grab irons.....	10'-7"
Maximum height above rail.....	15'-0"
Distance between truck centers.....	30'-0"
Truck rigid wheel base.....	9'-0"
Wheel diameter.....	40"

#### **SUPPLIES (per unit)**

Fuel oil.....	1200 gals.
Sand.....	16 cu. ft.
Lubricating oil.....	200 gals.
Cooling water.....	230 gals.

#### **WEIGHTS (per unit)**

Total weight, fully loaded, approximately.....	230,000 lbs.
Car body and equipment.....	154,400 lbs.
Trucks (2).....	75,600 lbs.
Maximum tractive effort at rim of wheel at 25% adhesion, per unit.....	57,500 lbs.

