



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

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Designed and Built for

GRAND TRUNK WESTERN RAILWAY

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 $8\frac{1}{2}$ " , 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, lead unit.....	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, lead unit.....	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.

