



2000 H.P. DIESEL PASSENGER LOCOMOTIVE . . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS . . LA GRANGE, ILLINOIS, U. S. A.

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Designed and Built For

THE PERE MARQUETTE RAILWAY

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

Powering the Pere Marquette, Michigan's first modern, streamlined ultra-luxurious train, is this Diesel Passenger Locomotive which is equipped with two General Motors 12 cylinder, V-type, 2 cycle Diesel engines having a bore of 8½ inches, stroke 10 inches and a unit fuel injection system. These engines are rated at 1000 horsepower each at 800 RPM, providing a total of 2000 horsepower for the locomotive. Each

engine is directly coupled to a DC generator. Current from these generators is fed through control apparatus to four traction motors — two per truck — geared directly to the driving axles. Two six-wheel trucks are used in this locomotive for smoother operation in the upper high speed range, middle wheels being designed to aid in weight distribution only.

SPECIFICATIONS

DIMENSIONS

Overall length over couplers.....	71'-1¼"
Maximum width over grab irons.....	10'-6¾"
Width over body posts.....	9'-10"
Height over all above rail.....	14'-10"
Wheel diameter.....	36"
Rigid wheel base of trucks.....	14'-1"
Roller bearing journals.....	6½" x 12"
Distance between truck centers.....	43'-0"
Truck swing designed for 21° curve, or 274-foot radius.	

SUPPLIES

Fuel oil.....	1200 gals.
Sand.....	16 cu. ft.
Lubricating oil.....	280 gals.
Engine cooling water.....	300 gals.
Boiler water.....	1200 gals.

WEIGHTS

Total weight fully loaded.....	317,280 lbs.
Weight with one-half of variable supplies.....	306,910 lbs.

STARTING TRACTIVE EFFORT

Maximum tractive effort at rim of driving wheels at 25% adhesion.....	53,462 lbs.
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