



4000 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

CENTRAL OF GEORGIA RAILWAY

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

This Diesel Passenger Locomotive consists of two cab units arranged for double end control from either cab, thus eliminating turn-arounds. Each unit is equipped with two 12 cylinder, V-type, 2-cycle General Motors Diesel engines having a bore of 8½", stroke 10" and a unit fuel injection system. These engines, capable of independent operation, are rated at 1000 horsepower each at 800 RPM, providing a

total of 4000 horsepower for the locomotive. Each engine is directly coupled to a DC generator. Current from these generators is fed through control apparatus to eight traction motors—two per truck—geared directly to the driving axles. Two six-wheel trucks per unit 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	142'-2½"
Maximum width over grab irons.....	10'-6⅞"
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 bolster centers	43'-0"
Truck swing designed for 21° curve or 274-foot radius	

BASE WEIGHTS (approximate)

Total weight, fully loaded.....	630,000 lbs.
Weight on drivers, fully loaded.....	424,620 lbs.

TRACTIVE EFFORT

(calculated from base weight)

Maximum tractive effort at rim of driving wheels at 25% adhesion.....	106,154 lbs.
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SUPPLIES

Fuel oil.....	2400 gals.
Sand.....	32 cu. ft.
Lubricating oil.....	660 gals.
Engine cooling water.....	800 gals.
Boiler water.....	2400 gals.

