



4000 H.P. DIESEL PASSENGER LOCOMOTIVE . . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS . . LA GRANGE, ILLINOIS, U. S. A.

4000 H. P. DIESEL PASSENGER LOCOMOTIVE

Designed and Built for

CHICAGO, BURLINGTON & QUINCY RAILROAD

This Diesel passenger locomotive consists of one lead and one booster unit, each equipped with two 12-cylinder, V-type, 2-cycle GM Diesel engines having a bore of $8\frac{1}{2}$ " , stroke 10" and a unit fuel injection system. The engines are rated a full 1000 horsepower for propulsion at 800 RPM, providing a total of 2000 horsepower per unit and 4000 horsepower for the locomotive.

Each engine is directly coupled to a DC generator. The direct current is fed through control apparatus to the eight traction motors—two per truck—geared directly to the driving axles. There are two six-wheel trucks under each unit. The traction motors power only the front and rear axles of each truck. The center axle is load bearing.

SPECIFICATIONS

DIMENSIONS (per unit)

Overall length over couplers, lead unit.....	70'-4"
Overall length over couplers, booster unit.....	70'-0"
Maximum width over grab irons.....	10'-6 $\frac{7}{8}$ "
Maximum height above rail.....	14'-11"
Distance between truck centers.....	43'-0"
Truck rigid wheel base.....	14'-1"
Wheel diameter.....	36"

SUPPLIES (per unit)

Fuel oil.....	1200 gals.
Sand.....	16 cu. ft.
Lubricating oil.....	330 gals.
Cooling water.....	400 gals.

WEIGHTS (per unit - approximate)

Total loaded weight on rails, lead unit.....	310,000 lbs.
Total loaded weight on rails, booster unit.....	301,000 lbs.
Loaded weight on drivers, lead unit.....	208,940 lbs.
Loaded weight on drivers, booster unit.....	202,874 lbs.

