6000 H.P. DIESEL LOCOMOTIVE . . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS . . LA GRANGE, ILLINOIS, U. S. A.

6000 H. P. DIESEL LOCOMOTIVE

Designed and Built for

TEXAS AND PACIFIC RAILWAY

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

This General Motors model F7 Diesel locomotive consists of four 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 6000 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 sixteen traction motors—two per truck—geared directly to the driving axles. There are two four-wheel trucks per unit. Among the special features of this locomotive is the dynamic brake which utilizes the traction motors for braking action. Electric power is generated in the traction motors and dissipated from resistance grids located in the roof of each unit. In many cases, this brake will control the speed of the train down long, mountainous grades without the application of ordinary air brakes. This locomotive represents the finest motive power offered for service in which heavy grades are involved.

SPECIFICATIONS

DIMENSIONS (per unit)

Overall length over couplers, lead unit	50'-8"
Overall length over couplers, booster unit	50'-0"
Maximum width over grab irons	10'-8"
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.
Cooling water, booster unit	215 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.

GENERAL MOTORS LOCOMOTIVES