

6000 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

ST. LOUIS-SAN FRANCISCO RAILWAY

BY FIFCTRO-MOTIVE DIVISION . GENERAL MOTORS . LA GRANGE, ILLINOIS

This General Motors model F3 Diesel locomotive consists of four 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 horse-power for propulsion at 800 RPM, providing a total of 6000 horse-power 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'-/"
Maximum height above rail	15'-0"
Distance between truck centers	30'-0"
Truck rigid wheel base	.9'-0"
Wheel diameter	40"

SUPPLIES (per unit)

JOI I LILJ	IP	61	0		,										
Fuel oil									 					1200	gals
Sand														.16 c	u. ft.
ubricating	oil				. :									.200	gals.
Cooling wat	er,	lea	d	un	It.									.230	gais.
Cooling wat	er,	DO	081	er	u	nı	ι.,		 					.215	gais

WEIGHTS (per unit)

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Total weight, fully loaded, approximately230,000 lbs
Car body and equipment
Trucks (2)
Maximum tractive effort at rim of wheel at
25 % adhesion per unit 57 500 lbs

