

5400 H.P. DIESEL FREIGHT LOCOMOTIVE

Designed and Built For

SOUTHERN RAILWAY COMPANY

BY ELECTRO-MOTIVE DIVISION . GENERAL MOTORS CORPORATION . LA GRANGE, ILLINOIS

This Diesel Freight Locomotive consists of two cab sections and two booster sections arranged for double end control from either cab, each being equipped with one General Motors, sixteen cylinder, V-type, 2 cycle Diesel engine having a bore of $8\frac{1}{2}$ ", stroke 10" with unit injection system, rated at 1350 H.P. at 800 R.P.M., and developing a total of 5400 H.P.

Each engine is direct connected to a D.C. generator, the current

of which is distributed to the traction motors mounted on the trucks which in turn are geared to the axles. There are a total of eight 4-wheel trucks under the four sections comprising this locomotive, each being equipped with two traction motors or a total of sixteen motors geared for a maximum speed of 70 M.P.H. All four engines are arranged for multiple control from either of the operator's cabs.

DIMENSIONS

Overall length over couplers
Maximum width over grab irons
Width over body posts9'-10"
Height over all, above rails
Wheel diameter
Rigid wheel base of trucks9'-0"
Roller bearing journals
Truck swing designed for 23° curve or 250-foot radius
Distance between truck centers on cab section
Distance between truck centers on booster section 26' 6"

S P E C I F I C A T I O N S

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Fuel oil				
Sand				
Lubricating oil (145)	gals.	per e	engine)	580 gals.
Engine cooling water	(22	5 gals.	. per engine)900 gals.

WEIGHTS

Total weight fully loaded
Weight of locomotive with one-half of variable supplies
Maximum tractive effort at rim of driving wheels at 25% adhesion

