



5400 H.P. DIESEL FREIGHT LOCOMOTIVE . . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS CORPORATION . . LA GRANGE, ILLINOIS, U. S. A.

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Designed and Built For

LEHIGH VALLEY RAILROAD COMPANY

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

This Diesel Freight Locomotive consists of two lead units and two booster units 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 8½", 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 65 M.P.H. All four engines are arranged for multiple control from either of the operator's cabs.

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

D I M E N S I O N S

Overall length over couplers.....	193'-0"
Maximum width over grab irons.....	10'-6 ⁷ / ₈ "
Width over body posts.....	9'-10"
Height over all, above rails.....	15'-0"
Wheel diameter.....	40"
Rigid wheel base of trucks.....	9'-0"
Roller bearing journals.....	6 ¹ / ₂ "x12"
Truck swing designed for 21° curve or 274-foot radius	
Distance between truck centers on cab section... ..	27'-3"
Distance between truck centers on booster section	26'-6"

S U P P L I E S

Fuel oil.....	4800 gals.
Sand.....	76 cu. ft.
Lubricating oil (200 gals. per engine).....	800 gals.
Engine cooling water (225 gals. per engine)....	900 gals.

W E I G H T S

Total weight fully loaded.....	894,000 lbs.
Weight of locomotive with one-half of variable supplies.....	873,000 lbs.
Maximum tractive effort at rim of driving wheels at 25% adhesion.....	218,250 lbs.

