



# 5250 H.P. GENERAL MOTORS DIESEL LOCOMOTIVE

## HAULS "THE CANADIAN", CANADIAN PACIFIC RAILWAY'S TRANSCONTINENTAL PASSENGER TRAIN IN THE ROCKIES

This General Motors Diesel locomotive consists of three 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 1750 horsepower for propulsion at 835 RPM, providing a total of 5250

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 twelve traction motors—two per truck—geared directly to the axle and wheel assembly.

### SPECIFICATIONS

#### *DIMENSIONS (per unit)*

|   |        |
|---|--------|
| Overall length over couplers, lead unit.....    | 50'-8" |
| Overall length over couplers, booster unit..... | 50'-0" |
| Maximum width over handholds.....               | 10'-7" |
| 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.....                    | 1000 gals. |
| Sand.....                        | 16 cu. ft. |
| Lubricating oil.....             | 167 gals.  |
| Cooling water, lead unit.....    | 188 gals.  |
| Cooling water, booster unit..... | 188 gals.  |

#### *WEIGHTS (per unit)*

|   |              |
|---|--------------|
| Total weight, fully loaded, approximately.....                            | 230,000 lbs. |
| Car body and equipment.....   | 158,500 lbs. |
| Trucks (2).....   | 79,500 lbs.  |
| Maximum tractive effort at rim of wheel at<br>25% adhesion, per unit..... | 57,500 lbs.  |

