

# THE RAILWAY & SHIPPING WORLD,

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The Official Organ of  
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The Canadian Roadmasters' Association.  
The Canadian Ticket Agents' Association.  
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TORONTO, CANADA, SEPTEMBER, 1903.

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## G.T.R. Locomotive History.

(Continued from page 293.)

has risen to 163,704 lbs. The haulage capa-  
city of these locomotives between Montreal  
and Brockville is a train of 1,500 tons going  
westward, and of 2,000 tons going eastward.

The Morse passenger locomotive remains  
of the single expansion design, but, as in the  
case of the freight, it is of greatly increased  
capacity, and an additional pair of driving  
wheels has been introduced, constituting it a  
"ten-wheeler." The essential differences  
may be seen from the tabulated statement,  
from which it may be calculated that the in-  
crease in power amounts to something over  
50% in the case of the G.T.R. passenger loco-  
motives of to-day, and, what is of very great  
importance, the steaming power of the boilers  
has been more than proportionately improved  
by a very liberal increase of heating surface  
and grate area.

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No. 93. No. 989-  
1881. 1902.

Diameter of cylinders, ins.....	18	20
Length of stroke, ins.....	26	26
Number of wheels.....	8	10
Number of driving wheels.....	4	6
Diameter of driving wheels, ft.....	6½	6
Total weight of engine, lbs.....	96,000	177,772
Initial steam pressure, lbs. a sq. in.....	160	200
Fire grate area, sq. ft.....	17¾	33½
Total heating surface, sq. ft.....	1,304	2,460

Twenty-five years ago the G.T.R. Co. of  
Canada owned 444 locomotives, of which 67  
were passenger, 359 freight, and 8 shunting.  
Of these the largest has 18 by 26 inch cylin-  
ders, and weighed 160,000 lbs. Now the  
G.T.R. System (which comprises the G.T.R.  
of Canada, G. T. Western, Detroit, Grand  
Haven and Milwaukee, Cincinnati, Saginaw  
and Mackinaw, St. Clair Tunnel, Toledo,  
Saginaw and Muskegon), possesses 983 loco-  
motives, 243 passenger, 652 freight, and 88  
switching, the heaviest locomotive and tender  
being a 20 by 26 in. ten-wheeler, weighing  
308,628 lbs. These engines are fitted with all  
modern appliances, such as high speed air  
brake, air signalling, steam heat, and carry a  
pressure of 200 lbs. a square inch.—Montreal  
Star.