

Railway Equipment Notes.

The James Bay Ry. has invited tenders for 200 flat cars, 60,000 lbs., four cabooses, and five 10-wheel locomotives.

The Winnipeg, Selkirk and Lake Winnipeg Ry. has converted one of its flat cars into a box car, and is using it for the conveyance of fish from Selkirk, Man., to Winnipeg.

The Intercolonial Ry. added to its equipment between Aug. 22 and Oct. 24, 40 4-wheel hopper cars, 30,000 lbs. capacity, from Rhodes, Curry & Co., Amherst, N.S.

The G.T.R. has recently added to its equipment two switching locomotives, 13 Richmond compound locomotives, five 10-wheel locomotives and 30 refrigerator cars.

The Bertram Engine Works Co., Toronto, has completed three large locomotive boilers, 5½ ft. diameter, and 23 ft. long, for a steam pressure of 180 lbs. to the square inch, for the Canada Atlantic Ry.

The Locomotive and Machine Co., of Montreal, has delivered to the G.T.R. five of the locomotives, the general dimensions of which were given on pg. 355 of our Oct. issue, and five more are in process of construction. An illustration of one of these locomotives is given on this page.

The Egerton Tramway Co., which opened its line between Westville and Trenton, N.S.,

138 flat cars, and 12 flangers, at its Angus shops; and 34 vans at its Farnham, Que., shops.

The Simplex Ry. Appliance Co.'s plans for its new plant at Montreal show 15 buildings, including machine, general appliance and blacksmith shops, power plant, etc. Employment will be given to 1,500 hands, and Vice-President Butler told a press representative, Oct. 9, that the plant would have a capacity of 25 cars a day, and that steel cars would be turned out if orders were received. The plant would turn out structural steel of all kinds.

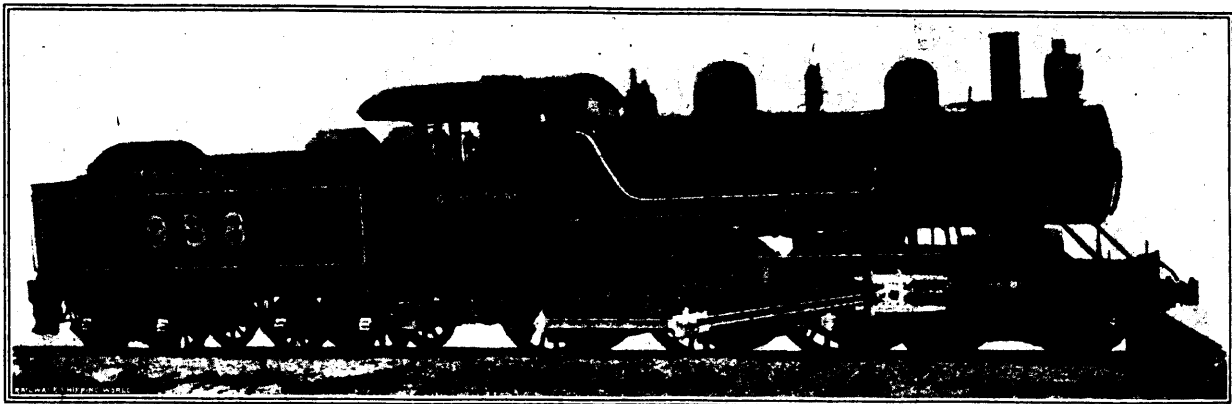
The C.P.R., from Aug. 12 to Oct. 19, received the following new rolling stock: 20 freight locomotives from the American Locomotive Co.'s Schenectady works; six freight locomotives from the Canadian Locomotive Co.; two freight locomotives from the Locomotive and Machine Co., of Montreal; two first-class cars and eight tourist cars, from its Angus shops; 95 box cars, 100 stock cars, and 85 flat cars from its Perth, Ont., shops; and 24 vans from its Farnham, Que., shops.

Among the matters of which the Ontario fruit growers complained to the Board of Railway Commissioners, was the damage to fresh fruit caused by the cars in which they are transported by the railways. This matter has been given over to the Commissioners' Chief Traffic Officer, J. Hardwell, who went

Safety valves muffled
Brakes Westinghouse
Weight of tender, loaded 143,000 lbs.
Capacity of tank 5,800 imp. gals.
Style of tank C shaped
Coal capacity 10 tons
Style of truck diamond
Diameter of wheel 34 in.
Kind of wheel steel tired
Diameter and length of journal 5½ in. x 10 in.
Brake beam metal. R. R. Co.'s standard

The Schenectady works of the American Locomotive Co. is building five locomotives for the G.T.R. They are of the 460-178 type, and have the following general dimensions:

Gauge 4 ft. 8½ in.
Fuel Bituminous coal
Weight in working order 182,000 lbs.
" on drivers 137,000 lbs.
" engine and tender in working order 325,300 lbs.
Wheel base, driving 15 ft. 8 in.
" rigid 15 ft. 8 in.
" total 26 ft. 11 in.
" total, engine and tender 56 ft. 8½ in.
Diameter of cylinders 20 in.
Stroke of piston 26 in.
Size of steam ports 20 in. x 1½ in.
" exhaust ports 20 in. x 3 in.
" bridges 18 in.
Kind of slide valves American balanced
Greatest travel of slide valves 5½ in.
Outside lap of slide valves 1 in.
Inside lap of slide valves 1 in.
Lead of valves in full gear Line and line.
No. of driving wheels 6
Diameter of driving wheels outside of tire 73 in.
Material of driving wheel centres main, cast steel, others cast iron
Thickness of tire 3½ in.
Driving box material cast steel.



LOCOMOTIVE BUILT BY THE LOCOMOTIVE AND MACHINE CO., OF MONTREAL, FOR THE G.T.R.

Oct. 11, purchased five 40-ft. double truck vestibuled cars from a Canadian firm. Each car is fitted with two 25 h.p. motors, Sterling safety brakes, panel and cylinder electrical heaters. Three cars have longitudinal seats and two have cross seats. Each car will seat 50 persons.

The Michigan Central Rd., built during Aug. and Sept., at its St. Thomas, Ont., shops, 26 merchandise cars, 80,000 lbs. capacity. It has also added to its equipment in Canada one compound consolidation locomotive, built at the Schenectady works of the American Locomotive Co., of the same general dimensions as those described on pg. 161 of our May issue.

The Intercolonial Ry. has placed the following orders for equipment between Aug. 22 and Oct. 24: 10 first-class cars and 100 platform cars from Rhodes, Curry & Co., Amherst, N.S.; four 2nd-class sleeping cars, four postal cars, four baggage cars, four parlor cars, and 50 box cars from the Crossen Car Mfg. Co., Cobourg, Ont.; and 25 box cars also ordered in Canada.

The C.P.R., between Aug. 12 and Oct. 19, placed the following orders for new equipment: 20 freight locomotives from the American Locomotive Co.'s Schenectady works; 20 switching locomotives, four colonist cars, two first-class cars, two baggage cars, 14 snow plows, 170 box cars, 27 stock cars,

to New York, Oct. 27, for the purpose of examining the various kinds of cars in use in the U.S. for the carriage of fruit and other perishables. J. M. Riddell, local freight agent, G.T.R., Montreal, and W. H. Bunting, President of the Ontario Fruit Growers' Association, joined Mr. Hardwell in New York, to look over the cars.

The G.T.R. has placed an order with the Canadian Locomotive Co., Kingston, Ont., for 25 Richmond compound mogul freight locomotives, to be delivered between June 1 and Aug. 31, 1905. Following are the general dimensions:—

Fuel used Bituminous coal
Weight in working order, drivers 140,750 lbs.
" total 163,700 lbs.
Wheel base of engine, rigid 15 ft. 8 in.
" " total 24 ft. 3 in.
" and tender 54 ft. 0 in.
Length over all, engine and tender 61 ft. 11½ in.
Width 10 ft. 6 in.
Height 15 ft. 1¼ in.
Heating surface, firebox 188 sq. ft.
" tubes 1,803 sq. ft.
" total 1,991 sq. ft.
Diameter of driving wheels 63 ins.
Material of driving wheels, centres four cast iron, two cast steel
Diameter and length of driving journals 9½ in. x 12 in.
Diameter of cylinders H.P. 22½ in., L.P. 35 in.
Stroke 26 in.
Type of boiler Radial stayed, wagon top
Working pressure of boiler 200 lbs.
Number of tubes 283
Diameter of tubes 2 in.
Length of tubes 11 ft. 11 in.
Injectors R. R. Co.'s standard

Diameter and length of driving journals 9½ in. x 12 in.
" main crank pin journals (main side 7½ in. x 5½) 6½ in. x 6 in.
" side rod crank pin journals, 5½ in. x 4 in.
Engine truck, kind four wheel, swing centre
Journals 6½ in. x 10½ in.
Diameter of engine truck wheels 38 in.
Kind of engine truck wheels cast iron spoke.
Boiler, style extended wagon top, radial stay.
Outside diameter of first ring 62½ in.
Working pressure 225 lbs.
Thickness of plates in barrel and outside of fire box, 2 in., ¾ in., ¾ in. and 1½ in.
Horizontal seams Butt joint, sextuple riveted.
Circumferential seams double
Firebox, length 110½ in.
" width 40 in.
" depth, front 76½ in.
" back 64½ in.
" plates, thickness, sides, ¾ in.; back, ¾ in.; crown, 1½ in.; tube sheet, ¾ in.
" water space, 4 in. front, 3½ in. sides, 4 in. back.
" crown staying radial.
" stay bolts best quality double refined iron, 1 in. diam.
Tubes, material and gauge Lap welded charcoal iron, .125 thick
" number 283
" diameter 2 in.
" length over tube sheets 15 ft. 0 in.
Fire brick, supported on water tubes
Heating surface, tubes 2,206.5 sq. ft.
" water tubes 231
" firebox 185.9
" total 2,415.5
Grate surface 33.4
Grate, style rocking
Ash pan, style, ¼ in. steel plate. Dampers F. & B. open, in dampers covered with netting.
Exhaust pipes single cast iron.
" nozzles 5 dia.
Smoke stack, inside diameter 16½ in.
" top above rail 14 ft. 7½ in.