BROCKVILLE, WESTPORT AND NORTH WESTERN RAILWAY.

JITNEY OPERATION.

C. H. RIFF.

ing their strike order. In view of the fact that rate reductions of large magniearn the 6% return to which they are entitled under the Transportation Act, and the relationship of the proposals to Oct. 20, but nothing came of it. The Government intimated that it will chairmen of unions, together with a large ating the wage reduction of July 1 into application for a further reduction, and by the train service brotherhoods recalleffect, the railways are not yet able to this proposal seems like an invitation to tion appears, from this distance, to be the labor leaders for a conference on leave matters in the Labor Board's hands number of rallway executives, for a conference in Chicago on Oct. 26. The pubto have suggested that the matter could lower rates to the public, deferring their tude have already been made, and that even with the July wage reductions in the railways to commit financial suicide, a definite settlement of the wage ques-The Railway Labor Board summoned be straightened up by the railways transthe labor leaders and 500 general lic members of the Labor Board are said for the time being. The Board summon-

which was calculated to be in the nature of a test. Its trainmen walked out on 22, but on the same day enough applications for work were received to man the road several times over, and it & Great Northern, a small road in Texas, is continuing business without interrup-A strike was called on the International very remote, to say the least.

on U.S. railways was 2,197,824; in June In Aug. 1920, the number of employes of this year, it was 1,586,143, a reduction of 611,681. At present, the number is a little larger, but it is probable that 600,000 railway employes are still without work in that country.

Gasoline Motor Car Trial on Canadian National Railways.

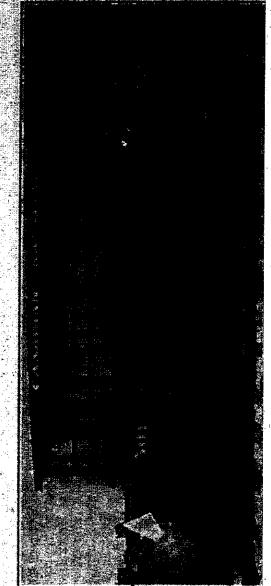
9 a.m., 1 p.m., 5 p.m., and 9 p.m., as trains 77, 79, 81 and 83 respectively, the run each way occupying 1% hours. The motor car service was begun Oct. 3, preby a mixed train each way daily except Sunday, and this service has been re-tained. The motor car remains at Westment is trying a gasoline driven motor car between Westport and Brockville, Ontario District, 44.4 miles, the car be-It leaves Westport at 7 a.m., 11 a.m., 3 p. m., and 7 p.m., as trains 78, 80, 82 and 84 respectively, and leaves Brockville at vious to which date service was provided The Canadian National Rys, manage-Brockville Subdivision, Ottawa Division, ing operated in regular passenger service and making four round trips daily. port over night.

doux, Jennings Ltd., Montreal, and has been handed to the C.N.R. for trial purcoses. As shown in the accompanying Hustration, a 4-wheel leading truck has car was constructed by Le-The

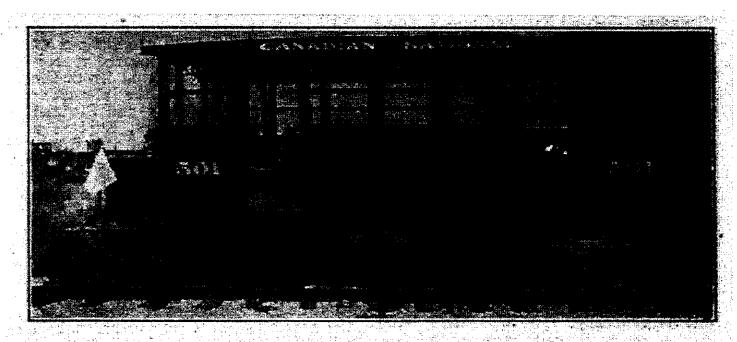
United States Grain Rates Reduced.

other Gulf ports, to reduce rates on grain from central western territory to land, New Jersey, Pennsylvania, New York and the New England States. The reduction will be 1214% on the average. In this reduction, and in reductions in ed to reduce, on 10 days notice, domestic rates on grain and grain products be-tween points in Virginia, Delaware, Mary-Juli ports by 51/2c, per 100 lb, on fire days notice. Eastern trunk line and New England roads have been authorize apply for the remainder of 1921 only. The Interstate Commerce Commission has granted the application of U.S. Tell ways extending to Galveston, Texas, an rates to Gulf ports, the lower rates wil

The state railway commissions of the western states applied to the Interstate Commerce Commission for lower rates on grain and grain products. The reductions were opposed by the western railways; hearings were concluded on Sept. 1 and oral arguments were heard on



been used, and the chassis of what would otherwise be a large motorbus has been modified to suit the requirements. length over all is 214 ft.; height, rail to roof, 9 it; length of body, 18 ft. width of body 11% ft. There are two entrance doors, one on each side, near the front. The seating capacity is 20, in addition to the operator, the seats being finished in rattan. There is one transverse seat across the rear, accommodating 6 passengers, 2 one-pasenger longitudinal seats, one on each side, and 3 seats arranged transversely on each side of the central aisle, each accommodating two passengers. The car is equipped with 6 dome electric lights, 3 on each side of the central aisle. On each side of the engine hood, which is 36 in, long, baggage carriers are arranged. The engine is of iteo manufacture.



Gaseline Passenger Moter Car, en trial en Canadian National Railways.

Nakmer 1921 P580

Self Propelled Cars on Ca

The gasoline driven railway passenger motor car placed in operation by the Canadian National Rys. between Westport and Brockville, 44.4 miles, on the Brockville Subdivision, Ottawa Division, Ontario District, described in Canadian Railway and Marine World for November is being continued in operation between those points as trains 78, 80, 82 and 84 from Westport to Brockville, and as trains 77, 79, 81 and 83 from Brockville to Westport, the running time in each direction being 1% hours. The schedule has been maintained consistently by the car, and the service has proved to be popular, as is evidenced by the fact that the car is loaded to capacity on every trip in each direction. The car is also proving most successful financially, the loss entailed by steam train operation being wiped out, and a good profit being shown after allowing for interest and depreciation. During November, adjustments were made to the engine (a Reo 4 cyl., identical with that used in the Reo "speed wagon," and rat-

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Self Propelled Cars on Canadian National Railways.

car placed in operation by the ber is being continued in operation between those points as trains 78, 80, 82 and 84 from Westport to Brockville, and The gasoline driven railway passenger on the Brockville Subdivision, Ottawa Division, Ontario District, described in Canadian Canadian National Rys. between West-Rallway and Marine World for Novemeach direction being 1% hours. The ently by the car, and the service has proved to be popular, as is evidenced by as trains 77, 79, 81 and 83 from Brockschedule has been maintained consistofty on every trip in each direction. The profit being shown after allowing for interest and depreciation. During Noville to Westport, the running time in the fact that the car is loaded to capacar is also proving most successful financially, the loss entailed by steam train operation being wiped out, and a good vember, adjustments were made to the engine (a Reo 4 cyl., identical with that used in the Reo "speed wagon," and ratport and Brockville, 44.4 miles,

ed. The C.N.R. will buy the car now in service from the builders, the Ledoux, Jennings Co., Montreal, which furnished it to the railway for a month on trial.

a favorable cost of operation. We are Bathurst, 62.96 miles, on the Bathurst time District, has continued to provide a The electric storage battery car, in informed that the saving made by this car over the cost of steam train opera-tion is \$2,500 a month. The car was in Subdivision, Campbellton Division, Marisatisfactory service and is still showing undergoing alterations to fit it for win-The interior was fitted with additional lining, and storm sash and double flooring were applied. The the Moncton shops from Nov. 14 to 19, battery containers were lined; as although the batteries are kept at a high sulting in lowered efficiency. In addition to lining the battery containers, two temperature, by electrical action, when the car is in operation, they rapidly become cool when the car is standing, re-Campbellton between ter operation. operation

were necessary and it was out of service until about the end of that month, when it was put back on the run, tontinuing until early in November, when it was withdrawn for the winter, and steam train service was resumed. We are officially advised that the car effected a saving, from the cost of steam train operation, of \$1,319 a month, for May, June and July.

Steel Rail Orders.

In September, Canadian Railway and Marine World was officially advised that the C.P.R. had ordered 25,000 tons of 100 lb. steel rails from Algoma Steel Corporation. Through one of those unfortunate errors that it is impossible to ascertain the cause of, and which no amount of care will always prevent, as long as the human element remains fallible, it was stated in our October Issue that the order was for 250,000 tons, an obvious mistake. This error was not noticed until early in November, when a subscriber called attention to it, but it had been inadvertently corrected by another item which appeared in our November issue, and which stated that the C.P.R. had ordered 32,000 tons of 100 lb. rails from Algoma Steel Corporation of the manufacture of which would be gone on with immediately after completion of the 25,000 tons ordered previously. The C.P.R. orders for this season to date are for 57,000 tons.

It was stated in Canadian Railway and Marine World for November that the Dominion Government had passed an order in council, Oct. 6, authorizing the purchase of 75,000 tons of steel rails and their accessories, for the Canadian National Rys. and the Grand Trunk Ry.; that the Canadian National Rys had ordered 20,000 tons of 85 lb. rails from Algona Steel Corporation, and was negotiating for 20,000 tons of 88 lb. rails from Long



Gasolina Trivan Mater D.



issoline Driven Motor Passenger Car and Baggage Trailer, on Canadian National Railways, Stanley Subdivision, New Brunswick.

December 1921

Self Propelled Cars on C

The gasoline driven railway passenger motor car placed in operation by the Canadian National Rys. between Westport and Brockville, 44.4 miles, on the Brockville Subdivision, Ottawa Division, Ontario District, described in Canadian Railway and Marine World for November is being continued in operation between those points as trains 78, 80, 82 and 84 from Westport to Brockville, and as trains 77, 79, 81 and 83 from Brockville to Westport, the running time in each direction being 1% hours. The schedule has been maintained consistently by the car, and the service has proved to be popular, as is evidenced by the fact that the car is loaded to capacity on every trip in each direction. The car is also proving most successful financially, the loss entailed by steam train operation being wiped out, and a good profit being shown after allowing for interest and depreciation. During November, adjustments were made to the engine (a Reo 4 cyl., identical with that used in the Reo "speed wagon," and rated at 35 h.p.), which has increased the mileage per gallon of gasoline from 12 to 16. The gear ratio has been changed to give slightly less engine speed, the ratio now being such that an engine speed of 1920 r.p.m. gives a speed of 40 m.p.h.

The car is well equipped with brakes. Those on the rear wheels are operated by two foot levers, and each wheel of the four-wheel leading truck is braked by an arrangement wherein what would ordinarily be the steering wheel is used as a brake mast wheel, the wheel being turned to apply the brakes, through an arrangement of rods and levers. The heating system is unique, the exhaust from the engine being piped through coils arranged under the seats.

We are advised that the C.N.R. intends acquiring another gasoline motor car to be placed in service between Westport and Brockville, in addition to the present one. The mileage being made by the car now in service is over 355 daily, and the fact of no trouble or delay being experienced to date indicates remarkable performance. It is evident that this mileage, made day after day, is excessive for a gasoline propelled car, but with two cars covering the service the mileage demanded will be within a reasonable limit. It is probable that the new car will be somewhat larger than the one now in service, and that it will be equipped with a 6 cylinder engine. A seating capacity of 30 is being consider650

Casoline Motor Car Friel on Canadian Valdonal Rollways:

The Canadian National Rys. management is trying a gasoline driven motor car between Westport and Brockville, Brockville Subdivision, Ottawa Division, Ontario District, 44.4 miles, the car being operated in regular passenger service and making four round trips daily. It leaves Westport at 7 a.m., 11 a.m., 3 p. m., and 7 p.m., as trains 78, 80, 82 and 84 respectively, and leaves Brockville at 9 a.m., 1 p.m., 5 p.m. and 9 p.m., as trains 77, 79, 81 and 83 respectively, the run each way occupying 1% hours. The motor car service was begun Oct. 3, previous to which date service was provided by a mixed train each way daily except Sunday, and this service has been retained. The motor car remains at Westport over night.

The car was constructed by Le-doux, Jennings Ltd., Montreal, and has been handed to the C.N.R. for trial nurposes. As shown in the accompanying this ration, a 4-wheel leading truck has

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the increased consumption being due to heavier grades and more frequent stops. Under unfavorable winter weather conditions, the current consumption has been running at 1.25 k.w.h. per car mile, and on one occasion, when snow was badly drifted on the track, and the temperature was 30 degrees below zero, the current consumption for the trip was 1.34 k.w.h. per car mile.

It was stated in Canadian Railway and Marine World for February that the Canadian National Rys. had ordered another gasoline propelled car from the Ledoux, Jenning Co., Montreal, for the Brockville-Westport run on the Ontario District. We have since been informed that this order has not yet been placed, although designs for the car are being

worked out.

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te time, and on ed order 32,224 il Rys. applicaperate the car x, Jennings Co., ng the applicafiled in support ort and recom-Mechanical Exthat the applierate upon their r propelled by to detail plans e motive power ne engine; and out into operaapproved by the ert. That the t at any time rt of its Chief Mechanical Exes or improveor in any car hich to it may afety and conthe applicant's urther reserves direct the disager service to built according he substitution

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to whether it is the management's intention to re-establish such a service between Brockville and Westport. The Minister of Railway replied that the matter was then under consideration by the management.

The Board of Railway Commissioners has authorized the gasoline motor car service to be restored on the Brockville-Westport run, and the Canadian National Rys. management has therefore ordered another car from Ledoux, Jennings Ltd., Montreal, similar to the one for the Picton-Trenton run described above. Pending the delivery of this car, the present steam train service between Brockville and Westport will be maintained.

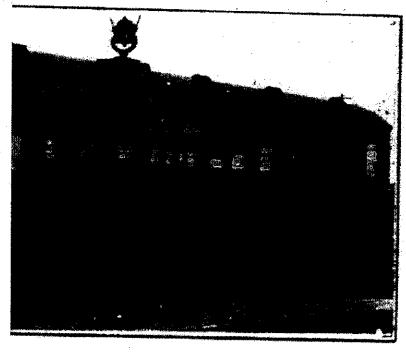
The electric storage battery car, described in preceding issues of Canadian Railway and Marine World, is still in operation between Bathurst and Campbellton, 62.96 miles, on the Maritime District, Campbellton Division, Bathurst Subdivision. One of the accompanying illustrations shows this car equipped with a snow plough which will remain on the car permanently. This car is continuing to give good and dependable service at the favorable c

previously, and despite great as 30 minutes has making its trips in schedubusy subdivision.

In the latter part of 19: B.C., Chamber of Committee Canadian National ment for the operation of passenger and freight s Victoria and Sooke, some Victoria on the Victoria track on which has been la from Victoria and on which MAY 1922

therefor of other service."

Particulars of the gasoline motor passenger car operated by the Canadian



tional Railways, with Snew Plough Attached.

National Rys. between Brockville and Westport, 44.4 miles, on the Ontario District, Ottawa Division, Brockville Sub- Brockville division, were given in Canadian Railway and Marine World for Nov. and Dec. 1921. This car was taken off that run and replaced by steam train service in the latter part of Dec. 1921, and the car was given an overhauling, larger axles and ball bearings being placed in the leading truck, and a larger rear axle, also running on ball bearings, fitted. The car was then run to Ottawa, where members and officials of the Board of Railway Commissioners made a trip on it and inspected it thoroughly, after which it was loaded on a flat car and shipped to the Maritime District, Edmundston Division. It is now in operation between Cross Creek and Stanley, 5.74 miles, on the Nashwaak and Cross Creek Subdivisions. The small motor car which provided service on that run formerly, described in Canadian Railway and Marine World for Dec. 1921, pg. 650, is out of service

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p.m., arrive Trenton 9 p.m.; leave Trenton as train 308 at 9.15 p.m., arrive Picton 10.30 p.m.

Construction has been begun on the second car which will on delivery be placed in service on the Ontario District Otawa Division, Brockville Scholvssian between Stockville and Westport 44.

We are officially advised that when the first of the two cars now under construction in Montreal is ready for delivery it will be run from Montreal to Treaton by its own power

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Self-Propelled Cars on Steam Railways.

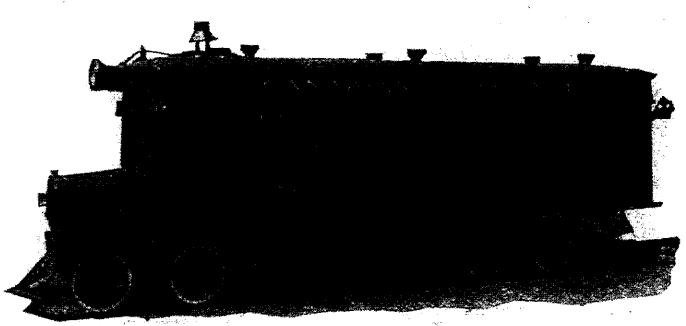
Canadian Railway and Marine World for June gave on pg. 289, details of two gasoline railway passenger motor cars, which the Canadian National Rys. are having built in Montreal and one of which is to be operated between Picton and Trenton, 30.6 miles, on the Ontario District, Ottawa Division; Picton Subdivision, and between Trenton and Trenton Jet., 1.6 miles, on the Maynooth Subdivision, also between Trenton and Napanee, 34.6 miles, on the Rideau Subdivision. We are advised that the first car has been delivered, and made its first run on June 28. The second car, of the same type will, it is expected, be completed about the third week in July, when it will be placed in service on the Ontario District, Ottawa Division, Brockville Subdivision, between Brockville and Westport, 44.4 miles.

The Canadian National Rys. have also ordered a gasoline railway passenger motor car from the Service Motor Truck Co., Wabash, Ind., for operation on the Maritime District, Campbellton Division, Bathurst Subdivision, between Bathurst and Campbellton, N.B., 62.96 miles, to replace the storage battery car which has been operating there, and it is expected that the storage battery car will be run between Montreal and Ottawa. The gasoline car ordered is similar to one ordered for the Greater Winnipeg Water District Ry, and which was described and illustrated in Canadian Railway and Marine World for May, pg. 231.

The Canadian National Rya have arranged to put two storage battery cars in operation on the Ontario District. The car bodies will be constructed and the electrical and mechanical equipment as sembled in the Niesais II (Sisterbica & Toronto toy shore at State Children One While serious suppose for this work being made, and it is the intention to have the cars ready for service as quickly

as possible.

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Gaseline Motor Passenger Car, Canadian National Railways.

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was operated in 1921 between Brockville and Westport, 44.4 miles, on the Ontario District, Ottawa Division, Brockville Subdivision, has been transferred to the Maritime District, Edmundston Division, and is operating between Cross Creek and Stanley, N.B., on the Nashwaak and Stanley Subdivisions, 5.74 miles. This car was described in Canadian Railway and Marine World for Nov. and Dec., 1921.

The gasoline car equipped with a Winton chassis and 6-cylinder engine, described and illustrated in Canadian Rail-

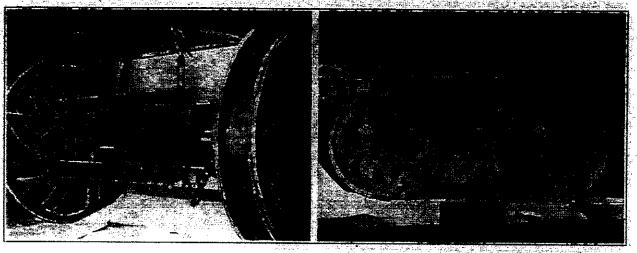
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The gasoline car equipped with a Winton chassis and 6-cylinder engine, described and illustrated in Canadian Railand arrives at Elmira at 11.45 a.m.; leaves Elmira at 12.45 p.m., Harmony Jct. at 1.32 p.m., and arrives at Souris at 1.50 p.m. In addition to the motor car service a mixed train service is given between Souris and Elmira on Wednesday only. From Souris to Harmony Jct. the junction between the Souris and Elmira Subdivisions, is 4.8 miles, and from Harmony Jct. to Elmira is 9.25 miles, making the total distance from Souris to Elmira 14.65 miles. Harmony Jct. is 55.5 miles from Charlottetown. No meets having to be made on steam trains, the motor

Meatreal under its own power and made the trip to Ottawa, 114 miles, in 4 hours, including all stops and meets. The builders state that between Mentreal and Hurdman, 1114 miles from the Montreal Tunnel station, 107 miles were run on a gasoline consumption of 9% galls, with 6 passengers in the car. On arrival at Ottawa, the car was inspected by Board of Railway Commissioners' members and officials, after which it was driven to Trenton, making on part of the trip 20 miles in 30 minutes. The trial trip on the regular runs was made June



Gasoline Enilway Motor Car, 15,812, Canadian National Enilways:

Front of rear truck, with drive shaft arrangement.

Side of rear truck, showing side rods.

way and Marine World for Dec., 1921, and which ran formerly between Cross Creek and Stanley, N.B., has been converted to 3½-ft. gauge at the C.N.R. Moncton shops, and started on July 6 operating between Souris and Elmira, P.E.I., on the Maritime District, Island Division, Souris and Elmira Subdivisions. Trains 23 and 24, which operated between Souris and Elmira daily except Sunday, were cancelled on the date mentioned, and motor car service was installed on the following schedule: Daily

car is being operated by one man. This operation will be in effect for the summer only, the Elmira Subdivision being very difficult to operate in winter, on account of snow. The car hauls a small trailer, used chiefly for the transportation of cream.

The first of the two gasoline cars ordered recently by the C.N.R. management from Ledoux, Jennings, Ltd., Montreal, was, on June 28, as stated in our July issue, placed on the run between Picton and Trenton, 30.6 miles, on the

28, and with 21 passengers on board 32 miles were run in 55 minutes, including two stops. The builders further state that they have a report that on one day the car made 196 miles on 14 gals. of gasoline, or 14 miles to the gallon. To July 10 the mileage made was 5,000. As stated in our July issue, the C.N.R.

As stated in our July issue, the C.N.R. management intends to convert 2 passenger cars into self-propelled cars of the storage battery type at the Nisgars, St. Catharines & Toronto Ry, shops at St. Catharines, Ont., for use on Ontario District lines. They will each be fitted with a set of storage batteries and 4 motors, and all other electrical and control equipment will be applied at St. Catharines. The type of battery to be used has not been decided.

The self-propelled cars in C.N.R. service have been renumbered recently. The gasoline electric car which has been operating for some time between Transcona and Winnipeg, Man., is now no. 15,200; the storage battery car operating between Bathirst and Campbellion is now no. 15,301; the 2 storage lattery cars to be built at St. Catharmes will be use. 15,802 and 15,803; the gasoline car operating in Prince Edward Island has been numbered 15,310; the first car built by Ledean, Jennings, Isd., now operating between Cross Cross Catharms and Stanley, N.B., is no. 15,311; the 2 gasoline cars embedding from the same builders are filled in the passing factor of the same builders are filled to be operated between Bathirdt and Campbellion is no. 15,313.



County Esta Co., 1833, County National Estates

except Sunday the car leaves Elmira at 6.20 a.m. Harmony Jet at 7.63 a.m. and survives at 8.80 a.m. and survives at 8.80 p.m. On Wednesday esly Souris at 5.30 p.m., Harmony Jet at 5.58 p.m., and survives Elmira at 6.30. On Wednesday only the car leaves Souris at 1.15 p.m., survives Harmony Jet at 1.22 p.m. leaves Harmony Jet at 1.23 p.m. and survives at Souris at 2.56 p.m. Daily except Sunday and Wednesday the car leaves Souris at 2.86 p.m. Daily except Sunday and Wednesday the car leaves Souris at 19.45 a.m., Harmony Jet at 11.65 a.m.

Ombario District, Ottawa Division, Pictor Subdivision, and between Trenton and Trenton let. 1.5 miles, on the Maynooth Subdivision, also, and between Trenton and Napanes, 34.5 miles, on the Risean Subdivision. The car's schooling was given in our June uses on my 285. The car is giving way anti-factory survice. It was described and a piar and revealing were given in our June lines, and herewith an above Historican of it and of the growt looking.

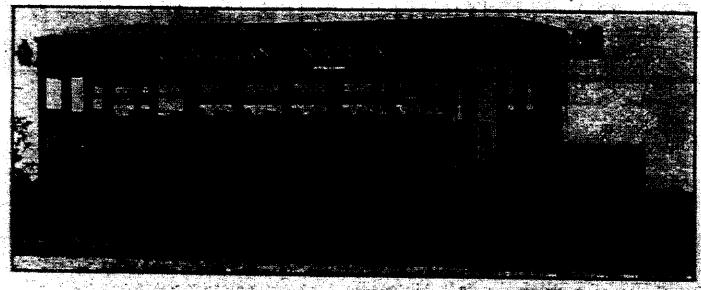
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August 1922

way and Marine World for Dec., 1921, and which ran formerly between Cross Creek and Stanley, N.B., has been converted to 3½-ft. gauge at the C.N.R. Moncton shops, and started on July 6 operating between Souris and Elmira, P.E.I., on the Maritime District, Island Division, Souris and Elmira Subdivisions. Trains 23 and 24, which operated between Souris and Elmira daily except Sunday, were cancelled on the date mentioned, and motor car service was installed on the following schedule: Daily

car is being operated by one man. This operation will be in effect for the summer only, the Elmira Subdivision being very difficult to operate in winter, on account of snow. The car hauls a small trailer, used chiefly for the transportation of cream.

The first of the two gasoline cars ordered recently by the C.N.R. management from Ledoux, Jennings, Ltd., Montreal, was, on June 28, as stated in our July issue, placed on the run between Picton and Trenton, 30.6 miles, on the



Caroline Bullway Motor Cat. 15,512, Campdian National Enforces.

except Sunday the car leaves Elmira at 6.20 a.m., Harmony Jct. at 7.03 a.m., and arrives at Souris at 7.80 a.m.; leaves Souris at 5.30 p.m. On Wednesday only Souris at 5.30 p.m., Harmony Jct. at 5.50 p.m., and arrives Elmica at 6.30. On Wednesday only the car leaves Bouris at 1.15 p.m., arrives Harmony Jct. at 135 pm., leaves Barmony let at 140 p.m., and arrives at Souris at 206 plan. Delly except Sanday and Walliamy Lb. Car Barrey Bould at 10.88 cm. Harmony Jr. of Prog. Lan.

Ontario District, Ottawa Division, Picton Subdivision, and between Trenton and Trenton Jct., 1.6 miles, on the Maynooth Subdivision, also, and between Trenton and Napanee 34.8 miles on the Ridean Subdivision. The tark schedule was given in our June issue on pg 289. The car is given you as also on gervee it was described and a plan and consider were given in each line name. THE RESERVE OF THE STATE OF THE

August 1922 p418

Side of rear truck, showing side rods. Gaseline Railway Moter Car, 15,812, Canadian National Railways,

Front of rear truck, with drive shaft arrangement.

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except Sunday the car leaves Elmira at 620 a.m., Harmony Jct. at 7.03 a.m., and Souris at 5.80 p.m. On Wednesday only THE PERSON OF THE PARTY OF THE 656 p.m., and arrives Dimirs at 6.80, On Water It out the feet leaved sound us pan, and arrive at Boars at excent Sminky and PATABLE MATHEMATICAL STREET South at 5.80 p.m., Harmony Jet.

Trenton and Napanee, 34.6 miles, on the Ridsan Subdivision, The car's schedul Ontario District, Ottawa Division, ton Subdivision, and between The and Trenton Jet, 1.6 miles, on the nooth Subdivision, also, and both ras given in our dine.

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District lines. They will each be fitted with a set of storage batteries and 4 motors, and all other electrical and control equipment will be applied at St. Catharines. The type of battery to be ger cars into self-propelled cars of the management intends to convert 2 passen-Catharines & Toronto Ry, shops at St. Catharines, Ont., for use on Ontario storage battery type at the Niagara, St. July 10 the mileage made war 5,000. As stated in our July issue, the C.N. used has not been decided

vice have been renumbered recently. The gasoline electric car which has been Mer operating for some time between Trans-5,800; the storage battery car operation core no. 15801, the 2 storage batton care to be built at St. Camarines will b mos. 15802 and 15,803; the gasoline to been numbered 15,810; the hear see but operating in Prince Edward natural can to be one rated between Bashiffer by Ledonx Jennings, Lid., now operal between Gross Grock and Stantay, n is no. 15,811; the 2 gasoline tars ord The seif-propelled cars in C.N.R. recently from the same builder. 15.812 and 18,818; and the gal Campbellton is no. 15.814.

Self Propelled Cars on Steam Railways.

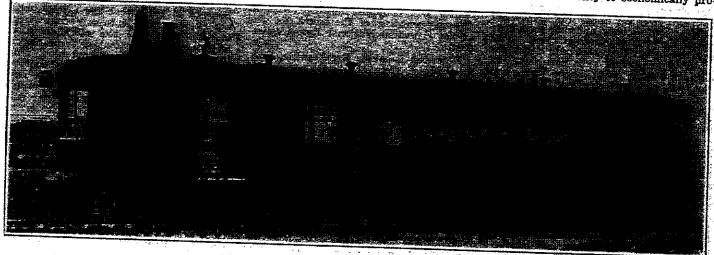
Canadian National Railways' propelled cars are, or very soon will be, assigned to service as follows: No. 15,800, the gasoline-electric car, which has been operating for some time be-tween Winnipeg and Transcons, Man., will be withdrawn from service and remodelled, probably at the Transcona shop. Thorough overhauling of the motor is necessary. It will be replaced by storage battery car 15,802, one of those received from the Cambria and Indiana Rd. no. 15,801, the storage battery car which has been furnishing satisfactory service between Bathurst and Campbellton, on the Maritime District, is operating between Toronto and Beaverton, Ont., 64.3 miles, on the Muskoka Subdivision, Nipissing Division, Ontario District. The first trip was made Oct. 15. It was originally intended to give the service between Toronto and Washago, 89 miles, but in view of the latter place receiving adequate service with-out the car, the Toronto-Beaverton run was decided upon. The car handles a large milk traffic, in addition to local passenger traffic, and operates daily except Sunday, leaving Beaverton as train

and illustrated herewith, has been placed on the Bathurst-Campbellton run, on the same schedule as the storage battery car operated there heretofore. Particulars of this schedule have been given in preceding numbers of Canadian Railway and Marine World. No. 15,810, the small gasoline car with the Winton engine, is still in operation between Souris and Elmira, on Prince Edward Island. Particulars of this run were given in Canadian Railway and Marine World for August, pg. 418. No. 15,811, the first gasoline car to be received from Ledoux. Jennings, Ltd., Montreal, is still in service between Cross Creek and Stanley, N.B., 5.74 miles, on the Nashwaak and Stanley Subdivisions, Edmundston Division, Maritime District. Gasoline car 15,812 is in service between Brockville and Westport, Ont., but will be replaced by car 15,803, as stated, after which it will be kept as a spare on the Trenton-Picton-Napanee run. Gasoline car 15,813 has been sent to the Pacific coast, where it will operate between Victoria and Sooke, some 22 miles out of Victoria, on the Victoria-Alberni line. Gasoline car 15,814 is in service on the Ottawa Divi-

vice to be afforded by any car built according to the said plans, and the substitution therefor of other service." We understand that the Canadian Na-

We understand that the Canadian National Rys. are about to order an additional gasoline rail motor car from Ledoux, Jennings, Ltd.
Full details as to the operating costs

Full details as to the operating costs of the various self-propelled cars are not available. It may be stated, however, that they have been running between 20c and 40c a car mile. In 1921, the average train mile operating expense on the Canadian railways as a whole was \$4.02, but this of course, covered all items of expense. What the average cost per passenger train mile is, is impossible to determine, although from time to time some railway accountant announces that he has devised a method of segregating operating costs as between freight and passenger service. It is evident that such a distribution of expense would at best be but a scientific guess. At all events, while exact costs and savings are not yet available, it may be stated that the self-propelled cars on the Canadian National Rys. have demonstrated their ability to economically pro-



Self Prepelled Steam Car, Canadian National Railways.

Inion Station at 11.30 a.m., and leaving Toronto as train 315 at 3 p.m., and leaving Toronto as train 315 at 3 p.m., and leaving Toronto as train 315 at 3 p.m., and arriving at Beaverton at 6.05 p.m. Power or charging the batteries is available at both Toronto and Beaverton. Concary to the original intention, car 15,802 will not be remodelled at the Niagara, it. Catharines & Toronto Ry, shops at t. Catharines, Ont., but at the Transona shops, near Winnipeg. The bagage compartment will be fitted up as a moking compartment will be fitted up as a moking compartment and a few other mail changes will be made. Storage attery car 15,803, also from the Camria and Indians Rd., is being rehabilitied at the Niagara, St. Catharines & oronto shops at St. Catharines.

sion, Ontario District, between Picton and Trenton, 30.6 miles, on the Picton Subdivision; between Trenton and Trenton Jct., 1.6 miles, on the Maynooth Subdivision, and between Trenton and Napanee, 34.6 miles, on the Ridean Subdivision. Battery cars 15,801 and 15,802 are equipped with Edison storage batteries, which have proved satisfactory in every way. Battery car 15,803 will be equipped with ironclad exide batteries.

The Board of Railway Commissioners passed order 32,842 on Sept. 9, authorizing the operation of gasoline car 15,813, as follows: The Board orders that the Canadian National Rys, be authorized to operate the passenger car known as the

vide services that steam trains could not provide except at a large loss.

The two storage battery cars bought by the Canadian National Rya from the Cambria & Indiana Rd. were in service formerly between Colver Heights and Nant-Y-Glo, Pa., 13.1 miles, making two round trips daily. It was decided by the Cambria & Indiana management to get rid of them, owing to the high cost of power, which was 5c per kwh. The cost of operating the cars was as follows: current, \$490; attendant for storage battery charging plant \$116; and repairs labor and materials, \$115 monthly, making a total of \$715 monthly. The

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December 1922 P598

316 at 8.30 a.m., and arriving at Toronto Union Station at 11.30 a.m., and leaving Toronto as train 315 at 3 p.m., and arriving at Beaverton at 6.05 p.m. Power for charging the batteries is available at both Toronto and Beaverton. Contrary to the original intention, car 15,802 will not be remodelled at the Niagara, St. Catharines & Toronto Ry. shops at St. Catharines, Ont., but at the Transcona shops, near Winnipeg. The baggage compartment will be fitted up as a smoking compartment and a few other small changes will be made. Storage battery car 15,803, also from the Cambria and Indiana Rd., is being rehabilitated at the Niagara, St. Catharines & Toronto shops at St. Catharines. New batteries are being put in, the car is being rewired, and equipped with locomotive bell, seats in the baggage comparkirent, standard headfelts and marker lights, and a lovelow, and generally is being made to conform with the Bond of Railway Commissioners' re-The second of the second of th Design and Venne and miles

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April 1923 p 156 Se. 15803

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The Canadian National Rys. now have 11 self propelled cars, as follows: no. 15,800, formerly a gasoline electric car, operating between Winnipeg and Transcona, but now at the Niagara, St. Catharines & Toronto shops at St. Catharines, Ont., for conversion into a storage battery car; 15,801, storage battery car now operating between Toronto and Beaverton; 15,802, the larger of the two battery cars bought from Cambria & Indiana Rd., now being overhauled at St. Catharines, preparatory to being run between Bathurst and Campbellton, N.B.; 15,803, the other battery car bought from Cambria & Indiana Rd., now operating between Brockville and Westport, Ont.; 15,805, steam car which was operating between Trenton, Picton and Napanee, Ont., but not operating at the time of writing; 15,810, a small gasoline car, with Winton chassis and 6-cylinder engine, which was operating between Souris and Elmira, Prince Edward Island Ry., but which has been replaced by steam train service during the winter; 15,811, a small Ledoux, Jennings gasoline car, operating on the Stanley Branch, Maritime District; 15,812, Ledoux, Jennings gasoline car, operating between

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will be installed.

Battery car 15,803, now operating between Brockville and Westport, Ont., was overhauled at St. Catharines and turned out with 110 MVX Ironclad Exide batteries, 4 Westinghouse V65-A3 motors and Brill type 69E ball bearing trucks. The car is making 107 miles daily, the current being obtained from the hydro system at Brockville, and the batteries being charged during the night.

The gasoline car ordered by the G.T.R.

April 1923

Calf Drandllad Cars on Steam Railways.

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MAY 1923 P209 BWNW.

. VIVIIIV GIIU DESVETUUI, UIII.; 19,802, The larger of the 2 storage battery cars bought from the Cambria & Indiana Rd., is operating between Bathurst and Campbellton, N.B.; 15,803, the other storage battery car bought from the Cambria & 5863 Indiana Rd., is operating between Brockville and Westport, Ont.; 15,804, steam car, has been taken out of service and returned to the builders; 15,810, a small gasoline driven car built on a Winton chassis, operating formerly between Souris and Elmira, P.E.I., has been taken out of service and replaced by steam train service; 15,811, a small gasoline car built by Ledoux, Jennings, Ltd., formerly in operation between Cross Creek and Stanley, 5.74 miles, on the Nashwask and Stanley Subdivisions, Ed-

15803 Sopherher 1923 427

Self-Propelled Cars on Steam Railways.

Previous issues of Canadian Railway ind Marine World have contained desriptions and illustrations of the numrous self propelled cars acquired by he Canadian National Rys. (including a arge gasoline car ordered by the G.T.R., efore the amalgamation). Greater Winupeg Water District Ry., Quebec Cenral Ry (including the car operated by he C.P.R. on its LaSalle Loop Subdivi-Jon!, and Quebec, Montreal & Southern ly, each car having been described as t was acquired. Most of the cars are n operation on the runs specified revious issues, but some redistribution ias been effected on the Canadian Na. ional Rys., as follows: No. 15,800, fornerly a gasoline-electric car operating etween Winnipeg and Transcona, Man., s being converted into a storage battery ar at the Niagara, St. Catharines & oronto Ry, shops at St. Catharines, Int. At the time of writing (Aug. 15) his work is nearly completed, and on eing finished the car will be returned o its former run. No. 15,801, a storage attery car bought from the Storage lattery Car Co., is operating between oronto and Beaverton, Ont.; 15,802, the arger of the 2 storage battery cars ought from the Cambria & Indiana Rd., operating between Bathurst and Campellton, N.B.; 15,803. the other storage attery car bought from the Cambria & ndiana Rd., is operating between Brockille and Westport, Ont.; 15,804, steam ar, has been taken out of service and sturned to the buildors, 15 210 a ---- 11

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MAY 1924

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Self Propelled Cars on Steam Railways. \3863

Canadian National Rys. on April 15, had self propelled cars in operation as follows: No. 15,800, between Transcona and Winnipeg, on Winnipeg Terminals Division, Manitoba District, Western Region, 7.1 miles. No. 15,801, between Toronto and Beaverton, Ont., on Bala Subdivision, Nipissing Division, Northern Ontario District, and Toronto Terminals Division, Southwestern Ontario District, Central Region, 64.3 miles. No. 15,802, between Campbellton and Bathurst, N. B., on Bathurst Subdivision, Campbellton Division, Atlantic Region, 62.96 miles. No. 15,803, between Brockville and Westport, Ont., on Westport Subdivision, Ottawa Division, Northern Ontario District, Central Region, 40.3 miles. No. 15,804, between Toronto and Weston, Ont., on Brampton Subdivision, Stratford Division, Southwestern Ontario District, and Toronto Terminals Divison, Southwest-

July, 1925

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Canadian National Ry.—Gasoline motor car 15,816, which had been operating between Montreal and Rawdon, Que., making 2 round trips daily except Sunday, and one on Sunday, was withdrawn June 14. The storage battery car operating between Brockville and Westport, Ont., was replaced on June 28 by a gasoline car, and transferred to the run between Fredericton and Centerville, N.B., to resume the service which was discontinued in Dec. 1924 on account of heavy snow, steam trains only being operated between Fredericton and Centerville during the winter. The storage battery car operating between Montreal and St. Eustache, Que., has been replaced by

JULY 1925

past.

Self Propelled Cars on Steam Railways.

Canadian National Ry.—The 3 Brill model-55 gasoline cars acquired by this road were described and illustrated in Canadian Railway and Marine World for August, pg. 388. We are advised officially that they have been numbered 15,826, 15,827 and 15,828. The first two are in operation on the Central Region, no. 15826 between Picton and Trenton, on the Picton Subdivision, Ottawa Division, Northern Ontario District, 30.6 miles; and no. 15,827 between Brockville and Westport, on the Brockville Subdivision, Ottawa Division, Northern Ontario District, 44.4 miles. No. 15,828 was, up to Aug. 10. in operation between Summer-

15,827 Brackville - Wastport

Car 15827 1925

miles, 1 round trip a day.

Car 15,825, without trailer, between Ottawa and Pembroke, Ont., 89.6 miles, 1 round trip a day; 15,808, without trailer, between Brockville and Westport, Ont., 44.4 miles, 2 round trips a day; 15,817, hauling mail and express car 7,619 on Tweed-Napanee portion of run, between Kingston and Tweed, Ont., 48.3 miles, 1 round trip a day; 15,794, hauling baggage car 8,456, between Brockville and Belleville, 95 miles, 1 round trip a day; 15,797, hauling trailer 15,753, between Weston Park and Toronto, 9.4 miles, 3 round trips a day; 15,830, hauling trailer 15,745, between Hamilton, Toronto and Guelph, or Stratford, as required, and trailers 15,736 and 15,745 between Hamilton and Toronto. operating between Hamilton and Toronto. 38.7 miles, between Toronto and London. 121 miles, and between London and Hamilton, 79.4 miles, I round trip a day; 15,795 and 15,796, between Black Rock and Bridgeburg, 0.8 mile, 10 round trips a 15,814, without trailer, between Capreol and South Parry, 139.1 miles, 1 round trip a day; 15,805, without trailer, between Richmond and Jackson, Mich., on Grand Trunk Western lines, miles, I round trip a day.

Car 15,800, hauling trailers 15,755 and 15,759, between Winnipeg and Transcona, 9 miles, 9 round trips a day; 15,827 and 15,829, hauling trailers 15,740 and 15,741, between Saskatoon, Sask., and Edmonton, Alta., 826 miles, each car making the one-way trip daily; 15,807, without trailer, between Victoria and Youbou, B.C., 83

miles, 1 round trip a day.

The total self-propelled car mileage is 4,714 a day, or 27,197 a week, not including the mileage of multiple unit cars oper-

15808 Brockille -Wedpit

November 1928

round trip a day, making 1,074 miles a ing 1, week.—Car 15,808, without trailer, on run 23, operates between Brockville and en 5.2 Westport, Ont., 44.4 miles, as trains 677, 380 678, 679 and 680, 2 round trips a day, making 1,068 miles a week.—Car 15,817, er, hauling mail and express car 7,619 tween Tweed and Napanee, Ont., enes. trains 690 and 691, and between Napanee 8 2 and Tweed on trains 696 and 697, on 58. run 24, operates as trains 690, 691, 692, ınd 695, 696 and 697, between Kingston and ins ınd Tweed, Ont., 75 miles, making 900 miles a week.—Car 15,794, hauling baggage car 8456, on run 25, operates as trains 671 4. 34, and 672 between Brockville and Belleville, Ont., 95 miles, one round trip a day, ae. making 1,140 miles a week.—Car 15,797, ay, hauling trailer 15,753, on run 26, operates as trains 605 and 606, and 609 and 610, 21, ed. 1.

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Brockville-Westport Train Service .-Commissioners Lawrence and Norris of the Board of Railway Commissioners sitting at Brockville, Ont., Aug. 13, granted the Canadian National Rys.' request to discontinue self-propelled car service between there and Westport, 44.31 miles, on the Gananoque and Westport Subdivisions, Belleville Division, Southern Ontario District, on the ground of lack of business. The self-propelled car service, given by a gasoline car with seats for 32 in the main room and drop seats for 9 in the 23 ft. baggage compartment, was discontinued Aug. 24. It formerly made two round trips daily except Sunday, as trains 677, 678, 679 and 680, a steam train making a round trip as trains 325 and 326 on Tuesdays, Thursdays and Saturdays. Now, trains 325 and 326 make a round trip on Mondays, Wednesdays and Fridays, and an September additional steam train service has been 1930 put on in place of the self-propelled car service, trains 327 and 328 making the round trip on Tuesdays, Thursdays and Saturdays. Thus, a round trip steam train service is given daily except Sundays. The loss of business for the selfpropelled car service was ascribed to motor vehicle competition.

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during the summer.

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A self-propelled car service was started on the Waterloo Subdivision, Stratford Division, Southwestern Ontario District, on Oct. 2, with storage battery car 15,797, which had been operated previously between Montreal and Rawdon. It makes 7 round trip daily, except Sunday, 6 of them between Kitchener and Elmira, 11.73 miles, and on the seventh it runs through from Elmira to Galt, 24.63 miles. This is the service concerning which, as stated in our August issue, there was correspondence between S. J. Hungerford, Vice President, Operation and Construction Departments, and Sir Henry Thornton, President, and W. D. Euler, M.P., Waterloo North, Ont., and as there stated, the car was to be placed in operation with the understanding that should it show an actual loss it would be withdrawn and used elsewhere. On the day the service was started, the car carried deputations from Elmira, Waterloo and Kitchener, including their mayors, and at Elmira a celebration was held, and speeches were made, including one by C. G. Bowker, General Manager, Central Region. We are advised that the battery recharging is being done at Kitchener.

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Cars are now in operation on the Central Region as follows: 15,815, gasoline, between Trenton, Picton and Napanee, Ont.; 15,804, battery, between Weston and Toronto, Ont.; 15,794, battery, between Toronto and Oakville, Ont.; 15,801, battery, between Toronto and Beaverton, Ont.; 15,795, battery, between Montreal and Rawden, Que.; 15,796, battery, between Montreal and St. Eustache, Que.; 15,799, battery, between Montreal and Waterloo, Que.; 15,803, battery, between Brockville and Westport, Ont.; 15,797, battery, between Ottawa and Pembroke, The mileages of these various runs, and the subdivisions and divisions on which they are, were given in Canadian Railway and Marine World for June and July. Gasoline car 15,814, which up to a short time ago was in service between Trenton, Picton and Napanee, has been shopped at Trenton, after doing 80,000 miles without major repairs.

the 15,803 Brockville-Westport

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second class compartments.

"About 1908, the General Electric Co. developed the gas electric car, consisting of a large 8-cylinder gasoline engine, direct connected to a generator supplying power to standard railway motors. It possessed many merits, and the electric equipment was excellent. Many of these cars are in service, but in general the gasoline engine has not reached a sufficient stage of development to make the whole a really reliable operating unit. The Canadian Northern Ry, bought one of these cars about 1911; and after using it for many years turned it into a storage battery car. (For details of this conversion, see Canadian Railway and Marine World for April, 1923, pg. 156, and Nov. 1923, pg. 531).

"In 1911, I was asked to investigate

Desember 1924 p. 596 As a gasoline electric car, it was equipped with a power plant, consisting of a GE gasoline engine, consisting with generator, the engine having 8 cylinders, and developing up to 1/5 hp, and the dynamic being rated at 80 km. It had only 2 motors, the drive balks to the leading case at a few balks are gasoline, engine, generator and motors, are being taken out, and all he replaced by the few to the section A 12 in the case at the section and the section of the section

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tion two new members in the form of sail acceptance will be not in to secure added attack the car is of all seed construction with a sals of channel section to secure additional acceptance and construction will be put in between the bases.

As a gas-electric car, the weight was about 44 tons, but it is anticipated that when the conversion into a storage battery car is completed, it will be only 35 tons. A large saving in weight will be introduced by replacing the old engine and generator set with batteries, while the 4 new motors will have an aggregate weight much less than the 2 old style motors. The new ball bearing trucks will be lighter than the tracks heretofore under the car. The car body will be arranged to have a seating capacity of nearly 100, and the interior will be in one compartment only. When the conversion is completed, the car will be returned to Wintipeg, to its run between Winnipeg and Transcops, 71 miles, on which it had been making from him daily. It is feit that the conversion into B BOOKERS TO PERFECT SERVICES BY large seving as maintaine cynenies were very heavy with the old entitioner. DETAILED TO BE THE PARTY OF THE of cheep electrical mower available.

Self Propelled Cars on Steam Railways.

The Canadian National Rys. now have to 11 self propelled cars, as follows: no. 15,800, formerly a gasoline electric car, operating between Winnipeg and Tramscong, but now at the Niagara, St. Catherines & Toronto shops at St. Catherines & Toronto shops at St. Catherines, for conversion into a storage battery car; 15,801, storage battery car; 15,801, storage battery car; 15,801, storage battery car; 15,802, the larger of the two battery cars bought from Cambria & Indiana warms bought from Cambria & Indiana warms of the two battery cars bought from Cambria & Indiana warms of the two battery cars bought from Cambria & Indiana warms of the two battery cars.

tion; two new members in the form of sill extensions will be put in to secure added strength. The car is of all steel construction; with 4 sills of channel section; to secure additional strength and rigidity 5 transverse members of truss construction will be put in between the bolsters.

As a gas-electric car, the weight was about 44 tons, but it is anticipated that when the conversion into a storage battery car is completed, it will be only 35

conditions, we can expect even under unusual rail conditions to stop within 600 it. or in approximately 25 seconds.

A. L. Currie, Superintendent, Quebec, Montreel & Southern By, which has been operating a Ledouz, Jennings Rasoline car, said: "The Q. M. & B. objects to an order requiring air brakes, especially for cars weighing less than 85,000 lbs.

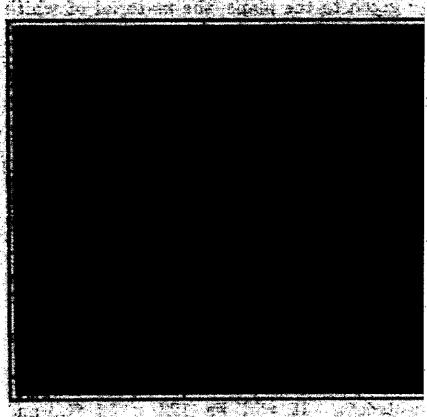
April 1923

and less than 37 ft. ing reasons: 1. Cos

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Canadian National Railways.— The accompanying illustration shows the storage battery car converted from a gas electric car at the Ningara St. Catharines & Toronto shops at St. Catharines Ont, as described in Canadian Railway and Marine World for October. The car, as rebuilt is 57% ft long and seats 96 passengers. It has a smoking compartment, but no laystory it is equipped



November 1923

(26 car

Blogues Battley Car Ptame, C

with 250 Edison A-12-H storage batterlest and 4 G.E. type G-251 ball bearing
motors of 25 h.p. each. On completion
of the conversion, the car was returned
to Winnipeg in a freight train with
gears disconnected, and placed in service
between Winnipeg and Transcons, where
it was operated formerly as a gas-electric car.

As stated in our October issue, the

Self Propelled Cars on Steam Railways.

Canadian National Ry.—Storage battery car 15,793, operated heretofore between Chatham and Newcastle, N.B., on the Loggieville and Harcourt Subdivisions, Campbellton Division, Atlantic Region, has been transferred to run between Brockville and Westport, on the Westport Subdivision, Ottawa Division, Northern Ontario District, replacing battery car 15,803, sent to Leaside shops, Toronto, for overhaul.

As stated in Canadian Railway and

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April, 1925

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between Brockville and Westport, Ont., while battery car 15,803 was being overhauled at Leaside shops, Toronto, has been returned. Car 15,803 has been repaired and returned to Brockville, but is being held there as a spare car, the run now being taken by battery car 15,799, taken off the Montreal-Waterloo, Que., run.

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April 1925 Brockville-Word 15803 15803

and illustrated herewith, has been placed on the Bathurst-Campbellton run, on the same schedule as the storage battery car operated there heretofore. Particulars of this schedule have been given in preceding numbers of Canadian Railway and Marine World. No. 15,810, the small gasoline car with the Winton engine, is still in operation between Souris and Elmira, on Prince Edward Island. Particulars of this run were given in Canadian Railway and Marine World for August, pg. 418. No. 15,811, the first gasoline car to be received from Ledoux, Jennings, Ltd., Montreal, is still in service between Cross Creek and Stanley, N.B., 5.74 miles, on the Nashwaak and Stanley Subdivisions, Edmundston Division, Maritime District. Gasoline car Cor 15,812 is in service between Brockville 15803 and Westport, Ont., but will be replaced by car 15,803, as stated, after which it will be kept as a spare on the Trenton-Picton-Napanee run. Gasoline car 15,813 has been sent to the Pacific coast, where it will operate between Victoria and Sooke, some 22 miles out of Victoria, on the Victoria-Alberni line. Gasoline car 15,814 is in service on the Ottawa Divi-

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Self Propelled Cars on Steam Railways.

Canadian National Rys.—As noted in Canadian Railway and Marine World for May, pg. 231, the C.N.R. management is having two gasoline railway motor cars built by Ledoux, Jennings. Ltd. is naving two general Jennings, Ltd., Montreal, for branch line operation. The accompanying Illustration gives plan and shawather of one of them. The chief dimensions will be:

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Middle, rell to top of roof 119 ft.
Width over saves
Width over saves
Width over saves
Width over saves
Wheel have, leading truck
Wheel have, rear truck

of special steel members, the center sills, 2 ft. 8 in. c. to c., being fish belly channels 14 in. deep. The side sills will be 3 x 2½ x 3/16 L sections. The sills will be braced by transverse members, with guassels, etc., the underframing being securely riveted throughout. Side fram-The car underframing will be built up will consist of ateel posts 11/2 x 11/2 posts will be of steel 2 x 2 x 3/16 in, L T. section, and the door F

flooring, laid diagonally on 1% z 2% in nailing strips, and an upper layer of law yood flooring laid longitudinally with a layer of lar paper between the lower and upper flooring. The seating arrangement is shown in the accompanying plan, the total seating capacity being 38. The seats will be finished in rattan. The partition between the passenger compartment and the space for the car operator will be removable, and a double rack will be removable, and a double rack ators compartment, for hand baggage. The window arrangement provides for adequate natural lighting. Artificial lighting will be by engine driven dynamick, and heatthng will be from the engine door at the rear of the car. The interior of the car will be finished The floor will consist of a lower layer of wood exhaust. The car will be equipped locomotive type pilot and warning in white and mahogany stain.

was at the time of writing, May 10, e pected by the end of May, and it will Delivery of the first of the two

p.m., arrive Trenton 9 p.m.; leave Trenton as train 808 at 9.15 p.m., arrive Picton 10.80 p.m. Construction has been begun on the second ar, which will, on delivery, be placed in service on the Ontario District Ottawa Division, Brockville Subdivision between Brockville and Westport, 44.4

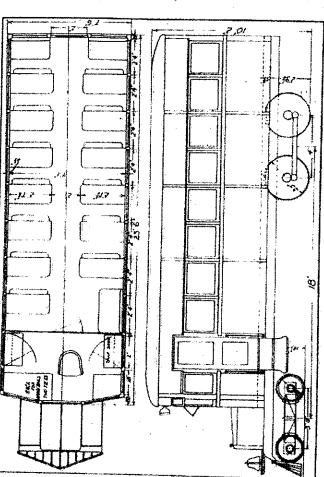
the first of the two cars now under con-struction in Montreal, is ready for de-livery, it will be run from Montreal to We are officially advised that when

Trenton by its own power.
Grand Trunk Ry.—We are officially advised that the use of self-propelled cars for branch line service is being given consideration and investigation on one of the company's branch lines west of the Detroit and St. Clair River, but that nothing definite has been decided nodn.

The Greater Winnipeg Water District commissioners, who operate a railway from St. Boniface, Man, to Shoal Lake, adjoining Lake of the Woods, 92 miles, have ordered a gasoline driven railway passenger car from the Service Motor Truck Co., Wabbash, Ind., which was described fully in Canadian Railway and Marine World for May, p. 231. We are officially advised that the car will probably be placed in operation about 7me 1. Pacific Great Bastern Ry—A U.S. contemporary stated recently that this railway had bought a gasoline driven passenger motor car from the Northwestern Motor Co. for operation out of North Vancouvel. We were officially advised, May 9, that such a car had not been bought, but that the management was investigating a type of gasoline car with a view to purchase. Greater Winnipeg Water District By

berton, N.J., 25 miles, is operating a 48-passenger gasoline driven rail car 150 miles daily between the points named, with a 2-man crew. Operating costs average 20c. a mile; the car will run 6.75 miles on one gallon of gasoline and Fennsylvania and Atlantic Rd., Union Transportation Co., leanees, which extends between Hightstown and Pem-

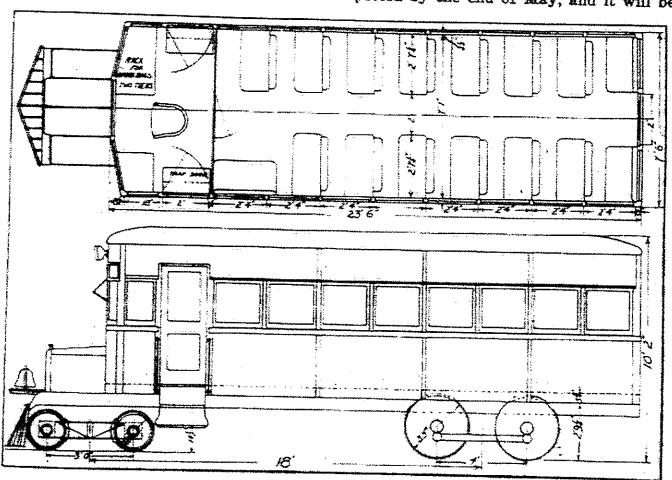
75 miles on one quart of oil. A steam train was replaced by the car, the estimated saving being \$15,000 a year. The car was run to Washington for the American Short Line Railroad Association's annual meeting, and was one of



Canadian National Radiways Gaseline Rallway Moint Car.

placed in service on the Ontario District, Ottawa Division. Sarvice will ha mixan will be of % in t. and g. boards, covered tions. Plate will be 1/16 in,

pected by the end of May, and it will be



Canadian National Railways Gaseline Railway Motor Car.

tions. Plate will be 1/16 in. The roof placed in service on the Ontario District.



tions. Plate will be 1/16 in. The roof will be of % in. t. and g. boards, covered with canvas, and painted.

Each car will be driven by a Reo 6-cylinder 50 h.p. engine, equipped with self starter. The water cooling system will include a centrifugal pump. The drive will be through a shaft to the front axle of the rear truck, and side rods will be employed to transmit the drive to the

trailing wheels of this truck.

The front truck wheels, of chilled iron, 20 in diam, will conform to M.C.B. specifications, and the leading truck axles, of heat treated steel, will be 2½ in diam. The rear truck wheels will be 33 in diam, and the axles 3½ in diam. The brakes, hand operated, will be controlled by a brake wheel convenient to the car operator, the brake shoes being applied through an arrangement of rods and levers controlled by the brake wheel and shaft. The car body will be equipped with two side doors at the front the chear floor opening being 2 ft., and the

placed in service on the Ontario District, Ottawa Division. Service will be given between Picton and Trenton, 30.6 miles, on the Picton Subdivision; between Trenton and Trenton Jct., 1.6 miles, on the Maynooth Subdivision, and between Trenton and Napanee, 34.6 miles, on the Rideau Subdivision. The following is the schedule on which it is intended to operate:-Leave Picton as train 301 at 6.30 a.m., arrive Trenton 7.45 a.m.; leave Trenton as train 310 at 7.46 a.m., arrive Napanee 9.05 a.m.; leave Napanee as train 309 at 9.15 a.m., arrive Tranton 10.35 a.m.; leave Trenton as train 302 at 10.40 a.m., arrive Picton 12 noon; leave Picton as train 303 at 12.45 p.m., arrive Trenton 2.10 p.m.; leave Trenton as train 303 at 2.15 p.m., arrive Trenton Jct. 2.20 p.m.; leave Trenton Jct. as train 304 at 2.40 p.m., arrive Trenton 2.45 p. m.; leave Trenton as train 305 at 5.30 p.m., arrive Trenton Jct. 5,40 p.m.; leave Trenton Jet. as train 506 at 5.55 p.m., arrive Trenton at 6 p.m.; leave Trenton as train 306 at 6.15 p.m., arrive Picton 7.35 p.m.; leave Picton as train 307 at 7.45

Canadian National Ry.—A complete list of self propelled cars operating on each region was given in Canadian Railway and Marine World for August, on pg. 406. Gasoline car 15,815, which had been operating between Trenton, Picton and Napanee, on the Central Region, while gasoline car 15,814 was shopped at Trenton for repairs, has been sent to the Atlantic Region, and the service between Trenton, Picton and Napanee is being given by gasoline cars 15,814 an 15,816. Battery cars 15,804 and 15,794

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Canadian National Ry.—The Brill model 55 gasoline car, mentioned in Canadian Railway and Marine World for May, as having been ordered for operation on Ontario lines, has been received and placed in operation between Trenton and Picton. It is numbered 15,826. Two more cars of the same type have been ordered, one for operation on the Central Region and the other on the Atlantic Region.

Battery car 15,796, which operated between Montreal and St. Eustache prior to being transferred to run between Brantford, Paris, St. George and Harrisburg, Ont., has been returned to the former run, and replaced by battery car 15,803, which was operated for a time between Brockville and Westport. We are advised officially that several changes in Central Region self-propelled car runs, the details of which have not been decided, will take place in June.

the press dispatch were not official.

Battery car 15,793, which was transferred from the Atlantic Region to run

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Brockville. Westport and North Western Ry.—Application is being made to the Dominion Parliament to authorize the company to enter into agreements with the C.N. Ontario Ry. and the Ontario and Ottawa Ry. for any of the purposes specified in sec. 361 of the Railway Act.

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Self Propelled Cars on Canadian National Railway.

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The storage battery car, fully described and illustrated in previous issues of Canadian Railway and Marine World, is still operating between Bathurst and Campbellton, 62.96 miles, on the Bathurst Subdivision, Campbellton Division, Maritime District, having been fitted for winter service at the C.N.R. Moncton shops, as mentioned in our December issue. This car, which was at first furnished by the Railway Storage Battery Car Co., New York, for trial purposes, has now been bought by the C.N.R. The gasoline motor car operated between Brockville and Westport, 44.4 miles, on the Brockville Subdivision, Ottawa Division, Ontario District, which was described in Canadian Railway and Marine World for Nov. and Dec. 1921, which was furnished by Ledoux, Jennings, Ltd., Montreal, for trial purposes, has been bought by the C.N.R. In the latter part of December it was shopped for a general overhaul, on the completion of which it will be returned to service on the same run. It has consistently made an operating profit and its patrons have expressed satisfaction with the service given. To replace this car while being overhauled, the gasoline motor car operated during the summer between Cross Creek and Stanley, 5.74 miles on the Nashwaak and Stanley Subdivisions, Edmundston Division, Maritime District, and which was described in our Dec. 1921 issue, was placed on the run between Brockville and Westport, but owing to its limited capacity steam train service has also been restored temporarily.

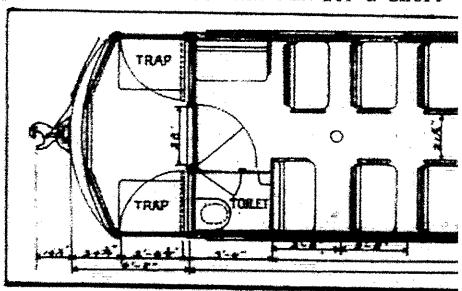
The C.N.R. management is considering the purchase of a gasoline motor car of improved design, to be placed on the Brockville-Westport run with the Ledoux, Jennings car when the later is returned to service.

Exchange and Surcharge on I tional Freight and Passenger B In accordance with the Board of

lighting, the current being obtained from a steam driven generator. The interior arrangement is shown in the

accompanying plan.

The C.N.R. has self propelled cars in operation as follows: - Gasoline-electric car 15,800 between Winnipeg and Transcona, Man.; storage battery car 15,801 Bathurst and Campbellton, between N.B.; gasoline car 15,810 between Souris and Elmira, P.E.I.; gasoline car 15,811 between Cross Creek and Stanley, N.B.; and gasoline car 15,812 between Picton, Trenton Jct., and Napanee, Ont. It is probable that gasoline car 15,814 will be placed on the latter run also. propelled car service is to be established between Victoria and Sooke, B.C., on the Victoria-Alberni lines, 22 miles, and it is likely that gasoline car 15,813 will be sent there. A self propelled car will also be placed in service between Brockville and Westport, Ont., 44.4 miles. A gasoline car was on that run for a short



period some time ago, but was removed. A third additional self propelled car service is to be established between Toronto and Washago, Ont., 89 miles,

Self Propelled Gars on Canadian National Rys.—The storage battery car described in a previous issue of Canadian Railway and Marine World, is being continued in operation during the winter between Bathurst and Campbellton, N.B., and is giving satisfactory service. The gasoline motor car built by Ledoux, Jennings, Ltd., Montreal, and operated between Brockville and Westport, Ont., is undergoing repairs, and steam service is being given instead. The C.N.R. has ordered another gasoline motor car from the same company, for the Brockville-Westport out. The new car will have capacity for 20 passengers, and it is not improbable that side not drive will be employed.