ONTARIO NORTHLAND RAILWAY

ABITIBI PULP & PAPER RAILWAY

Railway Rolling Stock Orders and Deliveries.

The Timiskaming & Northern Ontario Ry. has received 4 locomotives which have been rebuilt by Canadian Locomotive Co.

The C.P.R., between Nov. 14 and Dec. 16, ordered a single track, steel under-frame flanger, to be built at its Angus shops, Montreal, and bought 2 Jordan ballast spreaders.

The G.T.R. has received a steel underframe from Canadian Car & Foundry Co., for mail car 48, under construction at the G.T.R. Point St. Charles shops; also 11 steel underframe cabooses from its Montreal shops.

The Brazilian Railway Board's mikado (2-8-2) locomotive, 39 % in. gauge, details of which were given in Canadian Railway and Marine World for Oct., 1922, page 528, has been delivered by Montreal Locomotive Works.

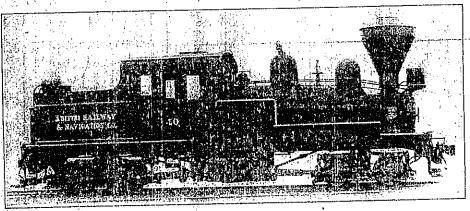
The C.P.R. has ordered 16 Pacific type locomotives from American Locomotive Co., and has made enquiries for the following additional rolling stock:-12 combination mail and baggage cars; 6 cafe parlor car frames; 6 buffet car frames; 300 composite coal cars, 75 tons capa-city; 50 oil tank cars, 50 tons capacity;

Flues, diam	5 % III.
Grate area	16.16 sq. ft.
tr	410 SQ- 10.
vv : 14	********** ***
337-4	1.00V Eerit.
The language	
Fuel capacity	

As will be seen by the accompanying illustration, the locomotive is labelled Abitibi Railway & Navigation Co., as some of the company's other rolling stock is. That was the name under which it was originally proposed to incorporate, but the company was incorporated as Abitibi Transportation & Navigation Co., as stated in Canadian Railway and Marine World at the time.

Canadian National Railways' Orders. As stated in Canadian Railways orders. As stated in Canadian Railway and Marine World for January, R. C. Vaughan, Vice President, Purchasing, Supplies and Stores Department, C.N.R., received tenders to Dec. 14, 1922, for a large quantity of rolling stock and work antiquent, and orders have since hear equipment, and orders have since been given for 77 locomotives, 155 passenger train cars, 2,700 freight cars, 272 freight car bodies, 100 ballast cars, and a quantity of work equipment, details of which are as follows:

Locometives .- Thirty-five mikado type



Shay Locometive, Ahitibi Transportation & Navigation Co.

300 steel underframe flat cars, 40 tons

capacity. United United States locomotive builders shipped 210 new locomotives in Dec., 1922, the largest number since Jan., 1921, builders 194 being for domestic use and 16 for-eign. The unfilled orders on Dec. 31, 1922, were 1,498 domestic, and 94 for-eign. The total shipments for 1922 were, domestic, 1,056; foreign, 218; total, 1,274, against domestic, 830; foreign, 519, and total, 1,349, in 1921.

Abitibi Transportation & Navigation Co.'s Shay locomotive, which has been received at Iroquois Falls, Ont., from Linia Lomocotive Works, Lina, Ohio, as mentioned in Canadian Railway and Marine World for Dec., 1922, has the following chief details:

Tollowing chief details.		
Critica 4 ft. 8	31/2	iπ,
Engl: Situning	is c	OH
Engine wheel base27 1t	. 2	m
Truck wheel base4 It	. z	ın.
Weight total96,	000	ΙĐ
Weight on drivers96,	UUU	Ιb
Moximum tractive power	535	11)
Feetor of adhesion	4	. 6
Diam' driving wheels	ביי ל	171
Cylinders, no.		
Cylinders, diam.	.,10	in
Cylinders, stroke	12	in
Boiler, diam4	2 1/4	in
Roller pressure	1.8U	110
Firebox, length	484	in
Tircher width	2 /1	113
Tubes, no.		6
Tubas diam		211
Tubes, length8 ft.	11	in
Flues, no.		1
riues, not management	T. 1	٠.

for Canadian National Rys. from Montreal Locomotive Works, and 10 mikados for G.T.R. from Canadian Locomotive The only details concerning these Co. available at the time of writing are as follows:

Wheel base of engine, rigid
Wheel base of engine, total 35 ft. 1 in.
Wheel base, engine and tenderabout 68 ft.
Wheel base, engine und bender
Heating surface, firebox and arch tubes. 300 sq. ft.
Heating surface, tubes and flues3,297 Sq. 16.
Heating surface, tubes and flues
Thinks whal contactERSU SUCI
Main journals
Other driving journals
Cylinder diameter 27 in.
Cylinder stroke
Boiler, type extended wagon top type
Flues, diam. 18 ft
Flues, length 18 ft.
Tender, water enpacity
t touch A wheat palestal and aqualizer type
trucks4-wheet pedestal and equalizer is be
wheel diam
" wheel typeSemi-steel centers with steel
tires
tank, stylewater bottom
transport to the control of the cont
" journals 6 x 11 in. Tractive power 54,600 lb.
Tractive namer 54.600 lb.
Feedwater heaterSuperheater Co.'s on 10 and
Worthington on 85
Stoker Duplex Valve gear. Superheuter Co.'s type A
Walschnert
Superheater Superheater Co.'s type A
Superneater Superneater Ob. a type A
Brakes Westinghouse E. T. no. 6
Safety valves

njector	EA for 3.500 gall.
	Commonwealth
Trailing truck	Economy
Sab	steel, vestibule type
Eight mikado type i	ionn Locometive
U.S. lines from Amer.	ont Rv. and 4 for
C.T. Western Lines T	nese will be very
aimiles in design to the	e standard U.S.
R A light mikado, and v	vill have the fol-
lowing chief specification	ns:
lowing chief specificatio Wheel base, engine, rigid Wheel base, engine and tende Cylinder, diam. Cylinder, stroke Firebox	16 ft. 9 in.
Wheel base, engine	71 ft. 516 in.
Cylinder, diam,	26 ih.
Cylinder, stroke	30 in.
Tubes, number	215
Tubes, diam	2¼ in.
Tubes, length	40
Flues, diam	5½ in.
Boiler pressure	220,000 1b.
Tractive power	54,700 lb.
Tractive power	10.000 U.S. gall.
" coal enpacity	6 tons
" weight londed	180,000 lb.
Valve gear	Duplex
Valve genr Stoker Feedwater heater	Superheater Co.'s
Ten mountain type	e for Canadian
Ten mountain type National Rys., and 6 r	ountain type for
the G.T.R., from Cana	idian Locomotive
Co. The only available of	letaus concerning
these are as follows:	19 ft 6 in
Wheel base, engine	41 ft. 8 in.
Wheel base, engine and tende	er
Heating surface, hrebox and fine Heating surface, tubes and f	ues3.731 sq. ft.
Heating surface, total	
Driving wheel diam	cast steel
Driving journals, main	12 x 13 in.
Driving journals, other	19 x 13 in.
Co. The only available of these are as follows: Wheel base, engine, rigid Wheel base, engine and tende Heating surface, engine and tende Heating surface, tubes and Heating surface, total Driving wheel diam Driving wheel diam Driving journals, main Driving journals, main Cylinder, diam Cylinder, stroke Boiley, type endial su	30 in.
Boiley, typerndial str	nyed, with combustion chamber
	Chanton
Bailer, pressure	210 lb.
Boiler, pressure	210 lb. 188
Boiler, pressure Tubes, number Tubes, diam,	210 lb. 188 2¼ in. 40
Boiler, pressure Tubes, number Tubes, diam. Plues, diam.	210 lb. 188 2½ in. 40 5½ in.
Boiler, pressure Tubes, number Tubes, diam, Flues, diam, Flues, diam, Tractive power Tractive power	
Boiler, pressure Tubes, number Tubes, diam, Flues, diam, Flues, diam, Tractive power Tender, water capacity " coal enpacity	
Boiler, pressure Tubes, number Tubes, diam, Flues, liam, Flues, diam, Tractive power Tender, water capacity, " coal capacity, " tank, " tender, tender	210 ib. 188 21/4 in. 40 3.1/5 in. 49,600 lb. 10,000 imp. gall. 15 tons water bottom
Boiler, pressure Tubes, number Tubes, diam, Flues, liam, Flues, diam, Tractive power Trader, water capacity "coal capacity "tank, "trucks, C	188 214 in. 40 515 in. 49,600 lb. 10,000 imp. gath 15 tons water bottom ommonwealth 6-wheel
Boiler, pressure Tubes, number Tubes, diam, Flues, liam, Flues, diam, Tractive power Trader, water capacity "coal capacity "tank, "trucks, C	188 214 in. 40 515 in. 49,600 lb. 10,000 imp. gath 15 tons water bottom ommonwealth 6-wheel
Boiler, pressure Tubes, number Tubes, diam. Flues, diam. Flues, diam. Tractive power Tender, water capacity '' cóal capacity '' tank '' trucks C '' wheelssemi-steel c '' wheelssemi-steel c '' frame Com	188 21/4 in. 21/4 in. 40/4 in. 41/4 in. 49/4 000 lb. 10/4 000 imp. gall. 15 tons water bottom ommonwealth 6-wheel at 41/4 in. diam. enters with steel tires monywealth cast steel
Boiler, pressure Tubes, number Tubes, diam. Flues, diam. Flues, diam. Tractive power Tender, water capacity '' cóal capacity '' tank '' trucks C '' wheelssemi-steel c '' wheelssemi-steel c '' frame Com	188 21/4 in. 21/4 in. 40/4 in. 41/4 in. 49/4 000 lb. 10/4 000 imp. gall. 15 tons water bottom ommonwealth 6-wheel at 41/4 in. diam. enters with steel tires monywealth cast steel
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Boiler, pressure Tubes, diam. Flues, immber Flues, diam. Flues, diam. Tractive power Tender, water capacity. "coal capacity. "tank. "trucks. "wheels. "wheels. "wheels. "wheels. "wheels. "wheels. "semi-steel capacity. Feedwater heater. Stoker Valve gear Superheater Brakes. Injector. Hancock tyne Trailing truck Engine truck Cab. Five 8-wheel switchi ern Lines, from Lima l Lima, Ohio. The chief as follows: Wheel base, engine. Wheel base, engine. Wheel base, total. Cylinder, diam. Cylinder, stroke Firebox. Tubes, number Tubes, diam. Flues, number Flues, diam. Flues, length Weight on drivers. Weight on drivers. Weight of tender. Tractive power Boiler pressure Tender, coal capacity.	210 in. 214 in. 214 in. 214 in. 214 in. 215 in. 216 in. 216 in. 217 in. 218 in. 218 in. 219 in. 218 in. 219 in. 2219 in. 2219 in. 2219 in. 2221 in. 223 in. 223 in. 224 in. 225 in. 226 in. 226 in. 227 in. 228 in. 229 in. 229 in. 229 in. 220 in. 220 in. 221 in. 221 in. 222 in. 223 in. 224 in. 225 in. 226 in. 227 in. 228 in. 229 in. 229 in. 229 in. 229 in. 229 in. 229 in. 220 in. 220 in. 220 in. 220 in. 220 in. 221 in. 222 in. 223 in. 224 in. 225 in. 226 in. 227 in. 228 in. 229 in. 229 in. 229 in. 220 in. 22

ailway Development, Projected Lines, Surveys, Construction, Betterments, Etc.

Abitibi Transportation & Navigation o., Ltd.—Canadian Railway and Marine orld for June stated that it had been ficially advised that the Abitibi Power Paper Co., had let a contract to build, Paper Co., had let a contract to build, is year, a standard gauge logging rail ay from Iroquois Falls, Ont., to a juncton with the National Transcontinental y. at Hughes, Ont., 16 miles, that Iroquois Falls is the terminus of the Timisaming Northern Ontario Ry's 7-mile ranch from Porquis Jet., Ont., 225.7 illes north of North Bay, and that ughes is 29 miles east of Cochrane. This peager information was only obtained leagre information was only obtained fter we had written two letters to the ompany. We then wrote again, asking ae usual information we obtain in reard to such matters, including the name and address of the contractor; what the untract included; section and weight of ails to be used; name of engineer who hade the survey; a blue print showing he routes; who would be in charge of onstruction for the company, and what olling stock it was intended to acquire. 'he company's Secretary replied, repeatng that a contract for all the work had een let, and the equipment purchased, r under agreement to purchase, lined to give any further information. We wrote him again, pointing out that such information is invariably furnished as in regard to railway contracts awarded and urged that it be supplied, but our request was ignored and our letter was

ot even acknowledged. In Canadian ailway and Marine World's 24 years astory, its Editor cannot remember having been similarly treated before, railway officials and projectors being almost invariably willing to furnish full information. However, in spite of the company's refusal, we are able to give considerable information about the matter, and shall give more from time to time in our read-

ers' interests. The Abitibi Power & Paper Co. has a large pulp and paper plant at Iroquois Falls and extensive timber limits in the surrounding districts. Press reports state that the company wanted to build a railway from Iroquois Falls, via Hughes, to ultimately reach James Bay, or navigable. waters flowing into it, and to do business thereon as common carriers. The question of the construction of such a line was considered by the Ontario Govern-ment in June, when a deputation from the company waited on Hon. M. Doherty, then acting Premier, and other members of the cabinet, the Chairman and other members of the Timiskaming & North-ern Ontario Ry. Commission being present. The commissioners objected to the company's application, on the ground that the projected line would interfere with the T. & N. O. Ry's business, and that it would parallel the extension of that line now under construction from Cochrane northerly. As a result, it was decided that the company may build a railway from Iroquois Falls to Hughes, but that it shall be used for logging purposes only. The Ontario Government, in June 28, issued letters patent of incorporation under the Ontario Companies Act for the Abitibi Transportation & Act, for the Abitibi Transportation & Navigation Co., Ltd., for the following purpoces: To carry on a lumber, timber and pulpwood business; to construct, purchase or otherwise acquire, steamers, scows, tugs and booms or any other kind of crafts or appliances for inland navigation and to employ and operate the

maintain embankments, booms and other works and equipment of all kinds for the purpose of carrying on such business; and to construct and operate lumbering and logging railways or tramways as hereinafter provided, sidings and appliances, provided, however, that any railway or tramways constructed or operated by the company shall be located from Iroquois Falls not farther north than Hughes and, together with any sidings in connection therewith, only on the present concession of Abitibi Power & Paper Co., Ltd., and, only for lumbering and logging for the supply of pulpwood to that company, limited; and further provided, that this company shall not in the exercise of its powpany snau not in the exercise of its powers accept from or deliver to any railway other than the Timiskaming & Northern Ontario Ry. any business or traffic other than pulpwood for the Abitibi Power & Paper Co. The authorized capital is \$2,000,000 in sharps of \$100 ceah and the Paper Co. The authorized capital is \$2,-000,000, in shares of \$100 each, and the head office is in Toronto. The provisional directors, of the usual dummy variety, are: G. H. Kilmer, H. H. Davies, J. D. Rumball, L. A. Landriau and A. L. Lewis, solicitors, Toronto.

The Optario Communics Act provides

The Ontario Companies Act provides for granting charters for any of the purposes to which the Legislature's authority extends, except those of railways, incline railways and street railway companies, etc. It is evident from the charter having been granted under this act that the line to be built by the company is not considered a railway in the ordin-

ary sense, but morely a logging line. We have ascertained that the contractor for the 16-mile line is the Grenville Crushed Rock Co., Ltd., of Montreal, and that its contract includes clearing right of way, grading, building of culverts and bridges, track laying and ballasting, and is being carried out under the direction of Andrew Wheaton, who is stationed at Iroquois Falls. Sub-contracts have been let as follows: Mile 1 and 2 to Stewart & McLean, Iroquois Falls, this is heavy shovel work and 2 steam shovels are being used; mile 5 and 7 to Dempsey & Deschamp, Iroquois Falls; mile 9 and 16 to McLean & Wheaton, Hughes; bridge across Abitibi River, and trestles and timber work, to John McPeake. At the time of writing, July 21, the right of way has been practically all cleared, and grading is being done over from 12 to 15 miles, the bridge and trestle work being also under way. It is reported that 80 lb. rails will be used on the main line, and that a number of spurs, to be built from the main line at various points to facilitate getting out logs, will be laid with 56 lb. rails.

A Montreal press dispatch says that the Abitibi I'ower & Paper Co., expects to save \$500,000, or \$2 a share on its common stock, in operating costs, by hauling logs on the railway (June, pg.

Burrard Inlet Tunnel and Bridge Co.-The Dominion Parliament has extended the time within which the company may build a bridge and tunnel, or either of them, with connecting railways at the second narrows of Burrard Inlet, Van-couver, B.C. The charter is held by the municipalities which the railway line, bridge and tunnel will connect with the steam railway lines. (Nov., 1921, pg.

Deminion Atlantic Ry .-- We are officially advised that the following betterments are either in hand, or will be done this year: The construction of five in-

lb. rails of 10 miles of track, from mile 7 to 12, Windsor Branch; from mile 9 to 11, Kentville Subdivision; and from mile 62 to 65, Yarmouth Subdivision; the gravel ballasting of 10 miles as follows: Between mile 0 and 5, Windsor Branch, and between mile 62 and 72, Yarmouth Subdivision; the erection of a station, 18 x 46 ft., at Round Hill, N.S.; the erection of a 40,000-gall. tank at Grand Pre, N.S., and the installation of a wig-wag signal at Windsor, N.S. (June, pg. 286.)

Hudson Bay Ry -- In the discussion on the estimates, on an item of \$7,000,000 towards deficiency in revenues to meet working expenses on the Canadian Government Railways, in the Camadan Government Railways, in the House of Commons recently, A. Knox, Prince Albert, Sask., raised the question of the Hudson Bay Ry., and after reviewing the history of the project asked the Common trails asked the Common trails. history of the project, asked the Government to give some assurance that it would be sympathetically considered and brought to completion at an early date. He also advocated the investigation of Churchill as a port before any further work be done at Nelson. A number of other Western members having spoken in favor of the completion of the line, the Minister of Railways stated that the railway had so far cost approximately \$20,000,000, and the estimates indicated that it would take a further sum of \$5,-000,000 to complete it to Nelson, with an additional \$10,000,000 to complete terminal and port facilities. It had been suggested that notwithstanding the expenditure of \$6,000,000 on navigation facilities at Nelson, that the development there be abandoned in favor of Churchill. Under such circumstances the Government could not be expected to give an immediate answer to the question submitted. When the new directors of the Canadian National Rys. are appointed the matter will be brought to their attention, and he had no doubt they would, at the earliest possible date, give it the consideration it deserves. There was no tendency on the part of the Government to refrain from doing anything which was in the public interest, and this problem would be given due consideration. (June, pg. 236.)

Kettle Valley Ry .- The Dominion Parliament has extended the time within which the company may build its projected railway from Coalmount, B.C., on the joint section operated by the K.V.R. and the Victoria, Vancouver & Eastern Ry. and Navigation Co., generally southerly to the Granite Creek coal areas, about 12 miles.

A press report states that the construction on the extension of the Penticton-Dog Lake branch, from the south end of the lake to Oliver, is progressing rapidly. The rock cut south of Okanagan Falls, and the bridge at the outlet of Vausseaux Lake are reported completed, and the only works now to be done to make the extension ready for track laying are two of the smaller bridges and some easy grading near Oliver. The car barge to be used for the traffic on Dog Lake, between the two sections of the branch, is reported completed. It will be used to convey rails and other material for the track laying and completion of the line. It is expected to have track laying finished about Aug. 15. We are officially advised that bridge 8.2 over Nicola River, on the Merrit Branch, which is to be reconstructed, was built in 1906 and consists of a Howe truss Car 2718, badly wrecked in an open switch accident at Queen and Connaught last spring still reposes at Hillcrest shop with no repair work done; it is doubtful that the car will ever be rebuilt...... West end ignitron rectifier substations are being constructed on Lansdowne end ignitron rectifier substations are being constructed on Lansdowne end ignitron rectifier substations are being constructed on Lansdowne end ignitron rectifier substations are being constructed on Lansdowne end ignitron rectifier substation in service.... Also planned then, the last rotary convertor station in service.... Also planned in a new substation on Granby St. in central Toronto, to bolster subway power.

ALL-THE ROSTER OF ABITIN POWER & PAPER CO. (Iroquois Falls Division)

(Consequent upon the admittedly incomplete information on the locomovives owned by this property in last month's issue, Mr. R.F. Corley has supplied the following list of the locomotives used here. He mentions also that the main line of the railway actually saw its last runtin October 1953 although it was not publied up until 1954, as stated. The company still does its own plant switching at Iroquois Falls).

MUMBERS	TYPE	PUILDER & DATE	REMARKS
30	2-6-0	M. L.W., 1922	Acquired new - used for main line haulage - relegated to standby locomotive when no. 80 acquired.
40	Shay	Lima, 1923	Acquired new - used on woods spur line - retired when no. 70 acquired scrapped 1951-2
50	Shay	Lima, 1924	Acquired new - used on woods spur line - relegated to standby when no. 70 acquired. Stored unserviceable from 1952.
30	0-6-0	Can.Locol,1909	From Temiskaming & Northern Ontario 854, 1954 - used for switching at Iroquois Falls midd - surplus when 80 acquired - Transferred to Lattagami R.R. in 1950 in exchange for latter's 102, which was used as a steam generator - scrapped July, 1951 at Smooth Rock.
70	Shay	Line, 1986	Built for Tallasee Power Co. (Mean.) for dam construction (1922-29); sold to quebec for Garson Dam construction; in dead storage for about a years; to Fraserdale, Ont., about 1938 for construction of Island Falls Canyon Dam, sold 1940 to Standard Chemical Co., South River; soll to Abitibi in 1947 after overhaul at O.N.R. Shops. Used on Woods spur line re-

Abitibi Power l'Apperi Troquois Falls Ontario

60 0-6-0 1909 KINGSTON # 904 19X26 50" ex TeNo 154, 854 (1935) 803 (1940) acquired Dec 1941

70. Shay. Lima 1926 # 3298 acquired 4-194 ex Tallahasse Power (o. ex Dominion Const. (o. ex Standard Chemical Comp.

20 Showy

30 2-6-0 MLW 1922.

40 Shary Lima 1922

placing 40 and 50 - stored unserviceable from 1952.

M.L.W., 1950 Replaced no. 30 on main line 1000 H.P. 80 and no. 60 in mill switching. Diesel Survohor

Wee Location Chart For Motive Power

- 1-31 <u>- 4</u>	Wala Wine	Woods Spur (It.le 33)	Iroquois Falls Mill	Retired
197.5	50		30	
(1983-12	30	40, 50	30	
tand	30	40, 50 (one spare)	60	
1917	30	50, 70 (50 spare)	60	40
1930	80 (30 spare)	50, 70 (50 spare)	80 (30 spare)	60 (to Mattagami)
1952 to Oct. 1953	80 (30 spare)	(Abandoned)	80 (30 spare)	50 - 70
Oct. 1953 to present	(Abandoned)		80 (30 spare)	
$\overline{}$				

C.N.R. NOTES

The motive power for the Museum train, Mogul 674, has been loaned for the winter to a plant at Bronsonville, P.Q.

The C.N.R. applied during December to the Board of Transport Comdiscontinue all scheduled local passerger train service on Prince Edward Island between mid-April and mid-Decem-Existing through trains between Charlottetown and the mainland coat connection would continue, and a new Daily except Sunday mixed main service would connect Summerside with the through train. g would handle passenger service elsewhere from April to December, while railway owned trucks would take pars of empress traffic. Trains would then be able to run as required for freight only.

System Vice-President of Research and Development S.W. Fairbrother said recently that applications will soon be made for permission to abandon a considerable mileage in unprofitable branch lines, although

locations are as yet not revealed.

NA E OF NEW C.P.R. TRAIN ANNOUNCED

The 1955 Canadian Pacific calendar shows an illustration of the new all-stainless steel train which will be inaugurated this summer. The name of the train, as shown on the calendar, is "The Royal Canad-This train will, in effect, replace the present transcontinental trains, 3, 4, 7 and 8 on an accelerated schedule.

Tre train will operate from Vancouver to Montreal and Toronto,

ming the same diesel locomotives all the way without change.

End.

Gasoline Traction for Light Hauling on Abitibi Power and Paper Co.'s Railway.

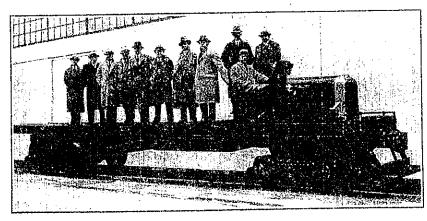
onplete underframe, with power plant, and trucks, of a traction unit to which he name "Locomo-truck" has been applied. The underframe was built by leneral Motors of Canada, Ltd., at shawa, Ont., and the assembly was aipped to Iroquois Falls on a flat car, he body was built by Abitibi Co. The nit, weighing 22,000 lb., and designed of a gross load (weight of vehicle plus ad) of 70 tons, is powered by a Genal Motors truck type model 525 engine, hich develops up to 130 b.h.p. and for hich the brake horsepower and torque rives are given in an accompanying lastration. The underframe is built up ith channel side rails, with outside rais ipported by outriggers and gusset ates, and with front and rear bracing channel angle braces. Length over 1 is 368 in. and width over all 102 in. he main frame members are 9 1/16 in. with ¼ in. reinforcement engentire length, and the members of sub-frame to which the driving orque is transmitted are 9 x 3½ x 9/32. The sub-frame is supported by 14 triggers extending from the main ame. The buffer beams are of 9 11/16 and 3½ x 5/16 in. material.

The leading truck, of conventional light ilway design, was manufactured by anadian Car and Foundry Co. The ading truck journals are 3% x 6% in., reparings being of plain type, in white

alloy, and the leading truck wheels of cast iron and 22 in. diam. The ar truck is built up with two Timken il floating, worm drive axles, with direntials locked, the front one being uipped with double end worm shaft to

transmission and Spicer needle-bearing propeller shafts. The gear ratios in the transmission are:—1st, 6.27:1; 2nd, 3.43:1; 3rd, 1.73:1·4th (direct), 1:1; 5th (overdrive), 0.67:1; reverse, 8.15:1. In addition to the main transmission, there is one-to-one reversing transmission mounted amidships in the drive line, the

truck wheels are of Bendix internal expanding automotive type. All brakes are operated by Bendix Westinghouse pneumatic equipment. Engine cooling is taken care of by a radiator, of the usual automobile type, mounted at the front of the chassis. The control equipment includes a hand brake control box, gear



Chassis for Locomo-truck, Abitibi Power and Paper Co.

effect of which is to make available the same reduction ratios in reverse as in forward motion; thus, the locomo-truck has the same maximum speed in reverse as in forward motion, viz.. about 36 m.p.h. The drive is transmitted from the sub-frame to the main frame through bolster plates, allowing free swivelling action and making it possible for the trailing truck wheels to track properly on the sharpest curves the locomo-truck is required to negotiate.

100 TONDUE

100 TO

Brake Hursepower and Torque Curves for model 525 engine used in Locomo-fruck.

Aves marked 468, 616 and 707 are for other engines, as explained in accompanying descriptive matter.

ansmit the drive to the rear one. The o axles are mounted in the sub-frame id held in place by radius or torque ds. The rear truck wheels are of cast sel, with removable steel tires, 30 in. am. Power is transmitted from the one to the rear truck driving wheels

The transmission gear shifting is effected by Bendix Westinghouse pneumatic gear shift mechanism, with remote control, the control apparatus being mounted in front of the driver's seat, at the right side of the engine. The brakes for the leading truck wheels are of the

shift control box, interconnecting hand and foot throttle control, clutch pedal (connected to control valve for air-operated clutch), and sand box control valve. The controls are grouped conveniently, and located underneath the instrument panel, which carries the speedometer, ammeter, gasoline gauge, oil gauge, air pressure gauge, switches, etc. A standard railway coupler is fitted at each end of the unit, and a footboard is provided at the front end.

The model 525 engine with which the locomo-truck is powered, so called because piston displacement is 525 cu. in., is a 6-cyl, valve-in-head type, with cylinders 4½ in, bore by 5½ in, stroke, the specifications showing S.A.E. rating of 48.60 h.p. and brake h.p. of 128 at 2,100 r.p.m., the governed speed. Maximum torque is 380 ft. lb. at 1,000 r.p.m., and compression while is 4.451. Weight and compression ratio is 4.45:1. Weight, without accessories, is 1,355 lb. In the cylinder block construction, the water jackets extend to the full height of the block, and as large space is provided between the barrels, even cooling throughout the block is assured. Replaceable hardened semi-steel sleeves are inserted in each cylinder bore and accurately ground to size; thus, a hard cylinder wall is provided, also an easy method of replacing individual sleeves when neces-sary. The crankcase is of aluminum alloy. The crankshaft is of drop-forged, heat-treated alloy steel, statically and dynamically balanced and drilled for high pressure lubrication of bearings; diameter is 2½ in, and weight is 141 lb. It is supported in seven main bearings, both the upper and lower halves being steelbacked and babbitt-lined. Total hearing length is 14 19/32 in., and projected area is 40.14 sq. in. The pistons, of split skirt type, are of heat-treated aluminum alloy, with the four ring grooves all above the piston pin. The lower groove is drilled and slotted for oil control. The piston pins are of tubular alloy steel, 13s in. diam., hardened, ground and lapped to a tolerance of 0.00025 in. The hole through the pin is tapered at both ends, i.e., the greatest wall thickness is at the center If the the affording group groundly with

Railway Rolling Stock Orders and Deliveries.

Shale Brick Co. Cooksville, Ont., has bought 3 rebuilt flat cars, 80,000 lb. capacity, 40 ft. long, from Canadian Equipment Co., Montreal.

The Timiskaming and Northern Ontario Ry. has received 2 rebuilt locomotives from Canadian Locomotive Co., completing an order for 6 rebuilt locomotives.

Abitibi Transportation & Navigation Co., Iroquois Falls, Ont., has bought, through Canadian Equipment Co., Montreal, a Russell no. 2 snowplough for use on logging railway.

The Quebec Development Co., Quebec Que., has ordered 8 four-wheel locomotives type Q318, and 5 four-wheel locomotives, type Q319, from the Montreal Locomotive Works.

The Esquimalt and Nanaimo Ry. (C. P. R.) is equipping one of its locomotives with Pyle National headlight, and also applying Pyle National lighting equip-ment to 8 passenger cars.

The C. P. R., between Dec. 17, 1922 and Feb. 10, received 1 single track steel underframe flanger, from its Angus shops, Montreal, and 69 freight refrom Montreal frigerator cars Car Corporation.

Sir William Arrol and Co., contractors, St. Catharines, Ont., have bought 15, rebuilt western air dump cars, 12 yd. capacity, with 19 ft. bed, from Canadian Equipment Co., Montreal. They have steel underframes, long cylneder air dump equipment, wood heds, and are air dump equipment, wood beds, and are of standard western construction.

The prosperity being enjoyed by U. S. locomotive builders is indicated in a report issued recently by the U. S. Commerce Department, Washington, which shows that in Jan. 1923, there were 229 locomotives shipped, compared with 210 in Dec., 1922, and but 74 in Jan., 1922. There were unfilled orders for 1,788 locations are hand at the and of Jan. comotives on hand at the end of Jan. 1923, compared with 1,592 at the end of Dec. 1922, and but 207 at the end

of Jan. 1922.

The Timiskaming & Northern Ontario Ry. was reported, in a United States paper of Jan. 20, as contemplating buying 15 Pacific type locomotives, which did not coincide with Canadian Railway and Marine World's information. and Marine World's information, as we were officially advised on Jan. 15 that the road was not in the market for additional equipment. Enquiry at North Bay tional equipment. Enquiry at North Bay has confirmed the previous information, and that such an order as mentioned is not contemplated. The T. & N. O. management has, however, been discussing with manufacturers the design of certain types of equipment which it is anticipated will be required, but has not asked for tendars.

anticipated will be required, but has not asked for tenders.

P. Lyall and Sons Construction Co., Welland Canal contractors, Thorold, Ont., have bought 2 six-wheel rebuilt switching locomotives, (0-6-0), and 19 rebuilt air dump cars, 16 cub. yd. capacity, of Kilbourne and Jacobs Manufacturing Co., standard construction, from Canadian Equipment Co., Montreal. The locomotives were built originally by the C. P. R., and have cylinders 18 x 24 in: extended wagon top boilers, 56 in. diar.; 175 lb. working pressure; Westinghouse automatic and straight top air brakes; 10 ft. wheel base, total weight, engine and tender, 151,000 lb., tractive power, 24,000 lb., tender capacity 3,000 gall water and 5 time coal.

The Belgo Paper Co. has ordered a 6-wheel saddle tank oil burning switching locomotive, (0-6-0) from Canadian Locomotive Co. Following are the chief details:—

Gauge 91,000 lb.
Weight in working order 91,000 lb.
Wheel base 9 ft. 6 in.
Heating surface, firebox 74 sq. ft.
Heating surface, tubes 716.6 sq. ft.
Heating surface, tubes 716.6 sq. ft.
Driving wheels, diar 42 in.
Cylinders, diar and stroke 16 x 22 in.
Cylinders, diar and stroke 18 x 22 in.
Boiler type 180 lb.
Tubes, no. and diar 132-2 in.
Tubes, length No. 6 locomotive inspirators
Injectors No. 6 locomotive inspirators
Safety valves Westinghouse Automatic
Packing Metallic
Capacity, water 1,500 imp. gall.

"fuel oil 500 imp. gall.
Grant Smith and Co. and McDonnell details:-

Grant Smith and Co. and McDonnell have bought 2 rebuilt 10-wheel locomotives, (4-6-0) from Canadian Equipment tives, (4-6-0) from Canadian Equipment Co. for use on their Timiskaming and Northern Ontario Rv. contract. They Northern Ontario Ry. contract. They have cylinders 18½ x 26 in.; 53 in. driving wheels; 8 x 12 in. journals; extended wagon top boilers, 60 in. diar., 175 lb. working pressure; 24 ft. 7 in. total wheel base, 240,500 lb. total weight, engine and tender, and are equipped with Westinghouse automatic and straight air brakes, Sharon couplers, and with tender consecut for Education with tender capacity for 500 gall. water, 9 tons coal. They have also bought tons coal. from the same company, 6 box cars, 60,000 lb. capacity, 36 ft. long, and 6 flat cars, 40 ft. long. The box cars are 36 ft. long over end sills, 8½ ft. wide inside and 8 ft. 1½ in. high inside and have Mumby caralled most side, and have Murphy outside metal roofs, M.C.B. couplers, simplex bolsters, Westinghouse air and hand brakes, etc. The flat cars are 40 ft. long over end sills, 10 ft. wide over all, 6 ft. high to top of brake shaft, and are equipped with Miner tandem coupler, with Sharon yoke, simplex bolsters, McCord journal boxes. boxes, etc.

The C.P.R. 16 Pacific type (4-6-2) locomotives which are being built at Montreal Locomotive Works, as mentioned in our last issue, will have the following

(Coming)	ተደተ ዘሰበ ነት
Weight on drivers	= e son 15
on engine truck	
total	299,000 18
a viji jieu und stroke	ZO X OV 11
Driving Journals, main	10½ × 14 ir
Engine truck journals	7 x 8 ir
Engine truck journals	9 x 14 ir
Tubes, no. and diar	98-51Z (1
Flues, no. and dist.	19 44 8 6
Tubes and flues, length	- 999 ac f
Heating surface, tubes and flue	* ************************************
Reverse goar	P.R. standard scre
Truck which, whe	Hteel; tire; 86% 1
Tender truck journals	6 x 11 1

Canadian National Railways' Orders. In addition to the orders given by the Canadian National Rys. for locomotives, cars, and work equipment, as stated in Canadian Railway and Marine World

1,000 automobile cars for February, 1,000 automobile cars have been ordered, 600 from Canadian Car and Foundry Co., Montreal, and 400 from National Steel Car Corpora-tion, Hamilton. They will have the following general dimensions:

following general dimensions:

Length inside

Length over striking plates

Width inside

Width over caves

Width over ca steel side framing, and 1½ x 5¼ in.
pine or fir, sheathing, and Hutchins all
steel flexible roofs. Equipment will in
clude Laughlin side bearings on 600
cars, and Stuki side bearings on 400;
Miner A-2-8 draft gear with Farlow
attachment; type D couplers with 6 x 8
in. shank; Camel no. 30 automobile car
door fixtures; Westinghouse schedule
K-C 1012 brake equipment, with braking power 60% light weight at 50 lb.
brake cylinder pressure; arch bar trucks; brake cylinder pressure; arch bar trucks; Simplex bolsters on 600 cars, and cast steel bolsters on 400.

Lettering.-We are officially advised that all the rolling stock ordered for construction in Canada and for operation on Canadian National lines in Canada, including the G. T. R., will be lettered "Canadian National" and that the new equipment to be built and operation in the U. S. of profition in Canadian Can ated in the U. S., as specified in Cana-adian Railway and Marine World for February, will be lettered "Grand February, Trunk."

Locomotives.—In the specifications for the 35 Mikado locomotives ordered from Montreal Locomotive Works, and the 10 from Canadian Locomotive Co., the 10 from Canadian Locomotive Co., given in Canadian Railway and Marine World for February, weights were omitted. We are now advised that approximate weights will be as follows:

on drivers, 230,000 lb; on engine truck, 27,500 lb; on trailing truck, 55,500 lb; total engine, 315,000 lb; tender, 180,200 lb. In the specifications for the 16 Mountain type locomotives ordered from Canadian Locomotive Co., weights were also omitted. The total weight of engine will be approximately 333,000 lb., with 226,000 lb. on drivers, and weight of tender, loaded, will be 208,000 lb. The Mikado locomotives will have Belpaire fireboxes and the Mounhave Belpaire fireboxes and the Mountain locomotives will have radial stayed fire boxes.

Car Conversions.—It was stated in Canadian Railway and Marine World for February that authority had been given for the conversion of 1,000 80-ton steel frame box cars into stock cars, and 50 box cars into cabooses, at Mond ton shops. We are officially advised that the conversion of the box cars into stock cars will include a rearrangeinto stock cars will include a rearrangement of inside lining; application of 18 x 30 in. sliding end doors and standard stock car side doors, with Camel, stock car door fixtures; provision of continuous feed racks; rearrangement of brake equipment to conform with latest C.N.R. standards; provision for application of double deck should same at any time be considered necessary; repainting standard ard color of stock cars, and resumbering

at Iroquois Falls: They were shipped of p565 11-1922 receives 2-60 922 p 597 Essex Terminal orders one loco MWW 20x76 50" Jan 1923 g8 Abetabe Ry

- grading I trestle building tack

layeng and ballashing on the 16 miles

had been rearly Completed and ar

5 mile spur line had been built from mile 8 into the bush
p7 1923 Abitibi bought 4,000 tons of relaigning
vails, 2500 ton 85/b and 1,500 tons of 56/b from Cdn Equyst Comp. P4 Wester has bought a small Shay (oco from Lina Loco 1-1923 p52 Abitibi Shay No 40 Abitibi opened for traffic Dec 231922 a spun from rule 8 extends 5 miles in of temporary ature. p278 6/1923 Ry has been delivering wood since January.

Birthdays of Transportation Men

April 16 to May 15

T. FRANKLIN AHEARN, President, Ottawa Electric Railway Co., Ottawa, born there, May 10, 1886.

R. A. BAINBRHUEE, formerly Engineer, Esqui-malt and banaimo Ry., Victoria, B.C., born in Northumberiand, Iondand, May 1, 1865.

Northumiseriand, Paletanu, Stay 1, 1865.
A. R. BELL, Harland Master, Hamilton, Ont., horn al. St. Thomas, Ont., May 16, 1885.
QUINTIN BOYD, Division Master Mechanic, Canadian Mational Rys., Capreol, Ont., born in Ayrshice, Scotland, May 8, 1802.

Ayrshice, Scotland, May S. 1892.

E. V. BUCHANAN, General Manager, London, Onl., Public Utilities Commission, and General Manager, London Railway Commission, here at Hamilton, Scotland, May 7, 1887.

R. V. CARLETON, District Master Mechanic, Quebec District, Canadian Pacific Ry., Montreat, Jorn at Delvin, Westmeath, Ireland, May 7, 1881.

born at Delvin, Westmeath, Ireland, May 7, 1831.
W. R. CATTON, Manager of Hydro-Electric Division of Brantford, Ont., Public Utilities Gominision, and Brantford Municipal Ry., born at Barford, Ont., April 18, 1896.
P. S. CHALMERS, Regional Treasurer, C.N.R., Winningr, born at Aberdeen, Scotland, April 16, 1890.

G. COBB, Superintendent, Newfoundland Ry., Bishon's Falls, Nid., born at Coupar Augus, Scot-land, April 21, 1885.

A. V. COLLINS, formerly Travelling Auditor, Canada Stemaship Lines, Ltd., Teronta, born at Island Point, Vt., April 21, 1862.

G. E. COWIE. General Freight Agent, United Kingdom Tradic, G.N.R., London, here at Iowa City, Iowa, April 55, 1883.

H. A. CRESSWELL, Tressurer, Canada Steam-dip Lines, United Montreal, born in Netting-ham, Erodond, May 6, 1991.

J. B. : (NGRAR, asting Assistant Superintendent, CAMR. Torento, born at West Hill, Oat., May 3, 1939.

A. D. CUTTHEERT, Division Engineer, C.N.R., Cechrane, Ont., bern at Glasgow, Scotland, May 5, 1885.

9, 1889. M. MeB. DUFF. Assistant to Chairman, Cana-dian Pacific Stermalips, Ltd., Montreal, and Provident, Shipalag Federation of Canada, born at Montreal, April 19, 1876.

an atomircal, April 19, 1476.

G. C. DUBN, framerly Assistant to Chief Engineer, C.M.R., Toronto, now at Peril, Ont., barn at Quebec, Que, May 12, 1882.

MERIEST DUPORT, Assistant Superintendent, U.N.R., Complettion, N.B., born at Mont Joli, Que, May 3, 1886.

V. E. EKE, Passenger Trailic Manager, C. N. Steamships, Montreal, and President, Montreal Presenger Club, born at Brighton, England, April 19, 1961.

W. E. EVANS, General Tie and Timber Agent, C.N.E., Hantreal, Forn there, April 17, 1878.

E. F. FARWESTHER, K.C., action Chief E. E. FARWESTHER, K.C., action Chief Counsel in theme of Legal Department, C.R.R., Mantical, Leta at Archanti, N.D., April 10, 1981.

S. W. FARWEATHER, B.Sc., Chief of Research and Development, C.N.R., Hantreal, Learn at Apalagud, N.H., April 30, 1892.

JAMES PENGUSON, Division Engineer, C.N.R., London, Ont., born at Blairgowrie, Scotland, May 6, 1329.

J. P. FLYNN, Chairman, Western Lines, Gana-ing Freight Association, Winnipeg, born at dian Freight Association, Wi Hesseler, Ont., May 14, 1890.

P. H. FOX, Superinterdent, C.N.R., Allandale, Out., born at Medicine Hat, Alta., May 6, 1888.

ALVIN GALLACHER, Superintendent, Great Lakes Scenarin Service, Canadian Pacific Ry., Part McNicell, Out., born at Terawater, Out.,

WHADAM GIBSON, Freight Agent, C.P.R., Port Arthur, Gat., born at Glasgow, Scotland, May 2, 1991.

Wm. G. HAMPLTON, Freight Claim Investi-gator, C.P.R., Tarcato, and Secretary, Transpor-tation Club of Toronto, been there, May 2, 1898.

W. J. HOTRUM, Superintendent of Terminals, C.N.R., Black Essil, N.Y., born at Hamilton, Ont., April 27, 1891.

R. B. JOHNSTON, Division Freight Agent, C.N.P., Edmonton, Alta., born at Toronto, May 3, 1833.

D. G. MIGBUINI, B.Sc., M.B.I.C. Chief Engineer, Beard of Transcort Commissioners for Canada, born at Etrafford, Ont., May 6, 1884.

W. H. KYLE, V.Ze. C.L.), A.M.E.LC., Division Engineer, Spatical Terminals, C.F.R., horn at Montreal, May 16, 1903. Moutreal, May 19, 1963.

ALMANZOE LABRECQUE, District Supervisor, Car Service, G.N i., Levis, Que., born at Beammont, Bellechness, Co., Que., Muy 1, 1992.

W. O. LeRiik, of Medical Service, C.N.R., Unatreal, born at Ste. Ursule Falls, Que., April

A. M. LINDSAY, Superintendent, Rolling Stock, Montreal Trainways Co., born at Waimate, South Island, New Zealand, May 11, 1883.

island, New Zealand, May 11, 1883.

G. E. LITTLE, chief clerk to Assistant Freight Traffic Manager, C.N.R., Terente, born at Hamilton, Ont., April 29, 1896.

SAMURY, McELEOY, Assistant Superintendent, C.N.R., Kamloom, P.C., born at Lindsay, Ont., May 1, 1875.

May 1, 1875.

D. F. McGREGOR, General Agent, C.N.K., Toronto, born at Paisley, Out., April 24, 1882.

I. J. McNAUGHTAN, Assistant Superintendent, C.P.R., Cranbrook, R.C., born at Alexandria, Out., May 12, 1899.

F. J. MYERS, Special Representative to Vice President, C.N.R., Winnipeg, born in London, England, May 16, 1824.

P. J. MYLER, Chairman of the Board, Ganadian Westinghouse Co., Hamilton, Ont., born at Pittsbergh, Pa., April 24, 1839.

J. H. NORTON, Assistant General Freight Agent, C.N.R., Moneton, N.B., born at Shaftas-bury, England, April 21, 1884.

II. C. PATTEN, General Manager, Transportation Commission, born at Mass., April 25, 1886.

T. E. P. PRINGLE, General Agent, Passenger Department, C.M.R., Boston, Mass., also General Passenger Agent, Central Vermont Ry., at St. Albans, Vt., born at Huntingdon, Que., May 1, 1987

I. C. RAND, K.C., Commission Counsel, Workreal, and Regional Counsel and General Claims Agent, Atheric Region, C.N.E., Mourton, N.R., born there, April 27, 1884.

Wm. II. ROACH, Master Mechanic, C.N.K., Oltawa, Ont., born at Haleys, Ont., May 7, 1885.

H. C. POCCUNSTER, Counsel Co.

H. G. ROCHESTER, General Car Accountral G.N.R., Montreal, born at Prince Albert, Sarah, April 22, 1892.

ALEERT SHELBURNE, Auditor of Claims, C.P.R., Montreal, born at Winniper, Mnu., Apr.J. 24, 1801.

L. K. SILLCOX, Vice President, New York Tracke Co., Watertown, N.Y., formerly in Canadian Northern Ry, service, Toronto, horn at Germantown, Pa., April 39, 1886.

II. N. SMITH. Superintendent of Motive Power and Gar Equipment, C.N.R., Saskatoon, the form at Tawas City, Mich., April 17, 1881.

ROBERT SURGEON, Freight Claim Sagar, Financial and Assaunting Department, C.S.R., Montreal, bere there, May 4, 1882.

L. B. UNWIN, Vice President and Treaser of Financial Department, C.P.R., Montreal, born in Kent, England, May 11, 1881.

J. M. WALKER, General Agent for Scotland, C.N.R., Glasgow, born there, May 11, 1889.

A. F. WHITE, A.M.E.I.C. Engineer, Turonia, Hamilton & Buffalo Ry, Co., Hamilton, Ont., born at St. Thomas, Ont., May 7, 1889.

Long Rail Service for Automobile

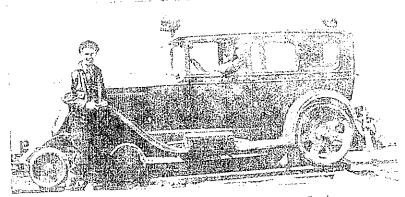
The accompanying illustration shows a McLaughlin-Buick automobile of sedan type which was acquired by Abilibi Power and Paper Co. in 1928, and adapted for use on the rails of the company's logging railway in the Cochrane-Smooth Rock Falls-Kapuskasing area. During the 12 years it has been in service, it has covered uearly 200,000 miles and is still going strong. It is employed to transport men and supplies over 28 miles of main line and 25 miles of spur To fit the car for operation on lines. the rails, the automobile wheels were removed and replaced by flanged wheels, and the differential was locked. A number of alterations were made after the car was purchased. The Rout pony trucks were originally equipped with breke shoes, but these were removed, and the present braking goar consists of brake drung on the axle, operated by cable from the steering wheel. The roller bearings at the rear were found to be too light, and were replaced by fleating brouze bushings, and the rear axle housbronze bushings, and the former by inserting a steel ing was reinforced by inserting a steel who in the housing assembly. The diftube in the housing assembly. ferential locking equipment was improved through welding the idler pinion portion solidly to the spider, and a device was

applied to the underframe which permits the car to be turned whenever and wherever necessary. The ear is also equipped with a 1% in. McLaughlia-Buick axle of chrome nickel steel, which requires replacement about once a year

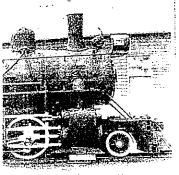
W. Kishbaugh, Manager, Woods for partment, Abitibi Power and Paper Iroqueis Falls Division, states that the car is in good mechanical condition. despite its 12 years' service. It is capaid. of speeds up to 50 m.p.h., and is usuall; operated at about 35 m.p.h.

U.S.A. Locomotive Condition-The Car Service Division of the Association of American Railronds reports that, on Feb. I this year, 6,324 U.S.A. class I railway locomotives were awaiting classified ropairs, these having been 15.5% of total locomotives on lines.

Canadian Pacific Express Co.-J. T Kelly, warehouseman, Ottawa, who entered the company's service June 20. 1916, died Jan. 18.-J. J. Ward, who was a messenger, at Toronto, and who enterethe company's service Dec. 15, 1901, auwas pensioned Feb. 1, 1938, died Feb. 20



Automobile in Abitibi Power and Paper Co. Railway Service. This McLaughlin-Buick sedan has been in operation since 1928, and has covered nearly 200,000 miles.

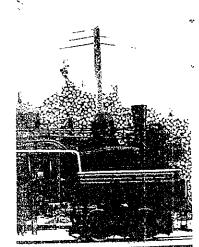












TWO LOCOMOTIVES TO BE GIVEN TO MUSEUM BY ABITIBI POWER & PAPER COMPANY LIMITED

A seventy-ton, three-truck Shay-geared locomotive, and a comparatively modern 2-6-0 type tender engine are the Association's two latest acquisitions for the Canadian Rail Transportation Museum, bringing the total number of steam locomotives to thirty, and to railway vehicles of all types to an even fifty.

The latest acquisitions are promised by the Abitibi Power & Paper Company Limited, who use the Shay, No. 70, on standby service around Abitibi's Iroquois Falls, Ont. plant. No.30, the 2-6-0, works at the plant of the subsidiary Manitoba Paper Company at Pine Falls, Man. Both locomotives are presently in operating condition.

The two locomotives have interesting backgrounds. Shay was built in 1926, and after use by contracting firms, was in service for the Standard Chemical Company at South River, Ont., until about fifteen years ago when it was sold to Abitibi. No. 30, a forty-year-old 2-6-0 was originally built by Montreal Locomotive Works, and there is an interesting legend that it was built for use in China by a contractor, who lost his life in guerilla warfare before the engine was completed. It was then sold to the Abitibi Railway & Navigation Company, the linehaul operation of the Iroquois Falls mill, before that facility was abandoned. The engine was then sent to the Manitoba plant, a switcher.

During its years of service No. 30 has been altered somewhat as shown in the photographs of both locomotives which appear on the opposite page. The top pic-

ture shows No. 30 as built, the other view, taken in 1959, shows its appearance today. The third photograph is a recent picture of No. 70 in typical surroundings at Iroquois Falls. In addition to the replacement of the conventional pilot on the 2-6-0, by the familiar footboards, the engine has also acquired smoke deflectors, which were uninfluenced by the doubtedly practice obtaining on the Ontario Northland Railway; quite possibly ONR installed this equipment during a periodical shopping of the engine for Abitibi. The practical value of deflectors on a 2-6-0 of No. 30's design can be the subject of some debate, but they are perhaps no more unusual than the enclosed all-weather cab, which was usually to be found only on much larger machines.

The Shay -- unusually for such a locomotive, -- sports a feedwater heater, which was not original equipment on No. 70. This locomotive is the geared locomotive in Canada east of the Rocky Mountains, and both engines represent types not yet to be found in the museum coll-

Delivery of the engines to the Association will await the obtaining of alternate motive power to replace these two units according to advice received by our President.

The Association is pleased to record its thanks and appreciation for this gift to the Abitibi Power & Paper Company Limited, a distinguished Canadian representing Canada's company largest industry.

(Next Page ----→)

THIS MONTH'S DIAGRAM

Our drawing this month is a side and front elevation and plan, to scale, drawn by our member Jacques Loiselle, and depicts the 450 class cars of the late Quebec Railway Light &Power Company. One of these cars has been preserved by the Seashore Electric Railway Museum at Kennebunkport, Maine, U.S.A.

Railway Rolling Stock Orders and Deliveries.

The Timiskaming & Northern Ontario Ry, has received 4 locomotives which have been rebuilt by Canadian Locomo-

The C.P.R., between Nov. 14 and Dec. 16, ordered a single track, steel under-traine flanger, to be built at its Angus shops, Montreal, and bought 2 Jordan ballast spreaders.

The G.T.R. has received a steel under-frame from Canadian Car & Foundry Co., for mail car 48, under construction at the G.T.R. Point St. Charles shops, at the G.T.R. property of the construction also 11 steel underframe cabooses from its Montreal shops.

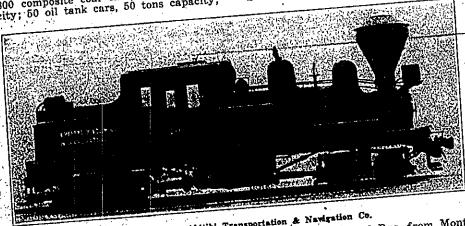
The Brazilian Railway Board's mikado (2-8-2) locomotive, 39 % in gauge, details of which were given in Canadian Railway and Marine World for Oct., Railway and Marine 1922, page 528, has been delivered by 1922, Page 528, has been delivered by Montreal Locomotive Works.

The C.P.R. has ordered 16 Pacific type The C.P.R. has ordered 16 Pacific type locomotives from American Locomotive Co., and has made enquiries for the following additional rolling stock:—12 combination mail and baggage cars; 6 cafe bination mail and baggage cars; 6 cafe parlor car frames; 6 buffet car frames; 300 composite coal cars, 75 tons capacity; 50 oil tank cars, 50 tons capacity;

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are as follows:

Locometives.—Thirty-five mikado type



Shay Locometive, Abilibi Transportation & Navigation Co.

300 steel underframe flat cars, 40 tons

capacity. States locomotive builders United States locomotives in Dec., shipped 210 new locomotives in Dec., 1922, the largest number since Jan., 1921, 1922, were 1,498 domestic, and 94 for 1922, were 1,498 domestic, and 94 for 1922, were 1,498 domestic, and 94 for 1922, were, domestic, 1,056; foreign, 218; total, 1,274, domestic, 1,056; foreign, 218; total, 1,274, against domestic, 830; foreign, 519, and total, 1,349, in 1921.

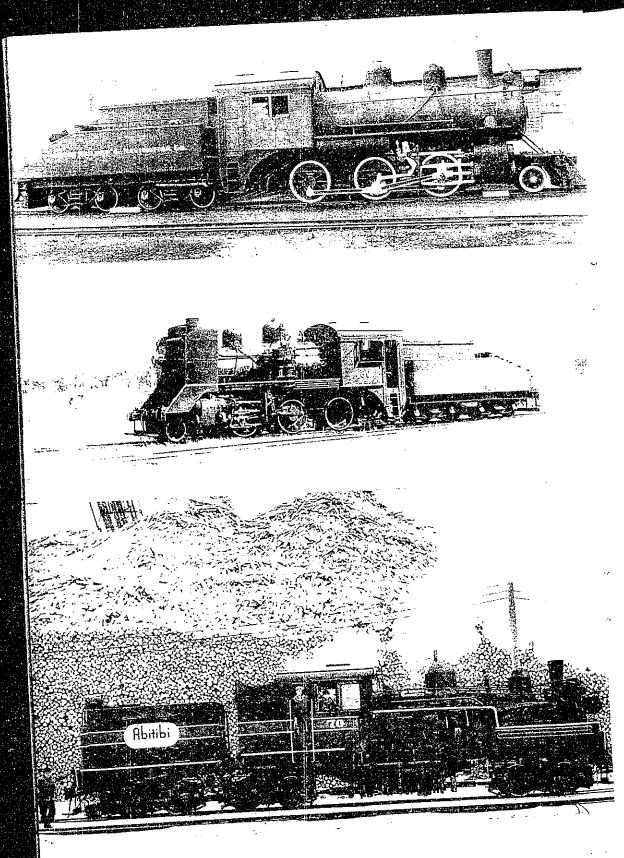
Abitibi Transportation & Navigation Co.'s Shay locomotive, which has been from

Abitibi Transportation & Navigation
Abitibi Transportation & Navigation
Co.'s Shay locomotive, which has been
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for Canadian National Rys. from Montreal Locomotive Works, and 10 mikados for G.T.R. from Canadian Locomotive The only details concerning these available at the time of writing are as

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Five 8-wheel switching for G. T. West-ern Lines, from Lims Locomotive Works, Lima Ohio. The chief dimensons will be



C.R.H.A. N

TWO LOCOMO ABITIBI FO

A sev Shay-geare comparativ tender eng ion's two for the Ca ation Muse number of thirty, a of all ty:

The promised Paper Com the Shay service quois Fal the 2-6-C the subs Company a locomotive rating (

The interest: Shay was ter use was in s Chemical Ont., un ago when No. 30, was orig Locomoti an int∈ was buil contract guerilla gine was Navigat. operati. mill, abandon sent to a switc

Do. No. 30 as show both lette op

THIS IN

elevat and de Power shore removal of Carlton cars from the short section of Danforth on Whic they now operate will do much to alleviate the nose-to-tail street ca operation which prevails here in rush hours, and to allow Bloor car to make better time through this section. A full double-track diamon will need to be installed at Main and Danforth for this track exter The loop track will circle two houses at nos. 315 and 317 Mai St., and it is difficult to imagine who, other than a railfan, woul want to live in these places in the future. be demolished at the loop entrance and exit.

The City of Toronto has given indication that it will proceed w the projected grade separation on Davenport Road in the new year. this point tracks of the Harbord carline cross the ConcR. Newmark Subdivision at grade. Nothing has been said regarding what will done with the far west end of the Harbord line while (and perhaps a ter) construction of this underpass is in progress.

ABITIBI POLER RAILMAY ABANDONED

Earlier this year the Abitibi Power and Paper Co. discontinue all operations on its private railway which ran some 40 miles nor from Troquois Falls, intersecting the C.N.R. National Transcontinent The company had made an intensive study of t line east of Cochrane. haulage by rail and by truck, and finally decided Trackage was removed during eur of economics favour of the latter alternative. summer and the roadbed was converted into a private roadway for co pany trucks. Lotive power known to be in use on the railway at t time of abandonment included an 0-6-0 switcher, no. 60 (formerly lead kaming and Northern Ontario Railway 154-854), a Shay, an 80-ton Gener Electric industrial type diesel, and a M.L.W. 1000 H.P. diesel switc The railway had a 32-year history, having been constru er, no. 80. ted in 1922.

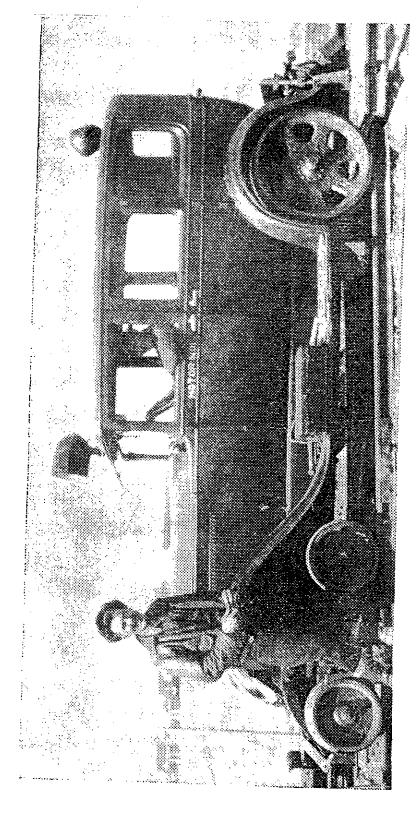
The company still operates a railway connecting with the O.N. at Island Falls Jct. and the short Mattagami Railroad, which connec Smooth Rock Falls to the C.N.R.

ALUMINUM SUBWAY CARS ARRIVE

At time of writing, T.T.C. aluminum subway cars 5100-5103 has just been received at Davisville shops after the long journey fi The cars arrived coated with a protective pa: Gloucester, England. The aluminum sheets of the bod: which will be removed forthwith. have been butt welded and rivetted, but so expert is the Workmansh: Two horizontal flutin that the rivet lines cannot be discerned. extending the length of the car body below the windows, to give add strength, are further departures from the steel cars. Extensive ter with $ilde{K}.W.H.$ meters are planned in order to measure the power consum tion of a train of these cars as contrasted to that of a train of Still to be received are the more recently ordered care steel cars. 5104 and 5105.

Traffic on the subway continues: to grow, and the addition of th cars to the roster will be most welcome to operating officials.

Clerk Colo Trans



Automobile in Abitibi Power and Paper Co. Railway Service. This McLaughlin-Buick sedan has been in operation since 1928, and has covered nearly 200,000 miles.