

CPR S-1
DIESELS
1943.

Diesel-electric Switchers on C.P.R.

The Canadian Pacific has received two out of five oil-electric locomotives built by American Locomotive Co. at the Schenectady plant, with the electrical equipment supplied by the General Electric Co.

THE accompanying illustrations are of one of the two Diesel-electric switching locomotives, the first delivered out of five for which an order was placed with American Locomotive Co., as recorded in these columns at the time. These two new switching locomotives have been placed in service in the C.P.R. Outremont yards, at Montreal, releasing older type locomotives for service on runs where they are needed to handle the heavy volume of war traffic passing over C.P.R. lines. Delivery of the additional three locomotives

where a box car can go, which facilitates the switching of cars on private sidings where track curvature is usually severe. Preliminary results show that fuel consumption is low, the locomotives being able to perform a strenuous 8-hour day's work on approximately 30 gallons of fuel oil.

Development of this type of motive power has resulted in the elimination of many objectionable features in the early designs of some 20 years ago, according to H. B. Bowen, Chief of Motive Power and Rolling Stock for

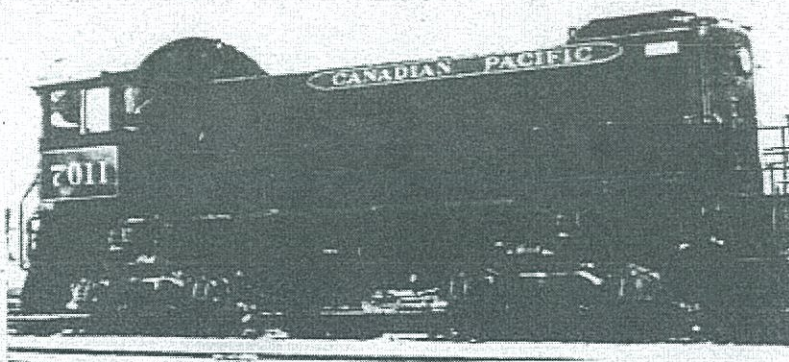
units are considerably more powerful.

Like the conventional locomotive, the driver's cab is located at the rear of the locomotive, while the main body ahead of the cab contains the Diesel engine, generators, controls, radiators and fan. The locomotives are equipped with the usual warning bell, while an air horn is substituted for the ordinary whistle.

Railway Freight Traffic

Freight loaded on Canadian railways and received from foreign connections was, in tons—

	1943	March, 1942	1941
Prince Edward Island	28,278	21,139	27,943
Nova Scotia	781,347	821,098	772,267
New Brunswick	461,740	364,729	274,238
Quebec	2,222,515	2,091,970	1,691,998
Ontario	6,628,429	5,973,499	4,431,673
Manitoba	392,479	308,291	302,487
Saskatchewan	414,256	497,932	329,593
Alberta	874,214	891,308	548,121
British Columbia	888,968	729,372	719,226
Total	12,825,988	10,863,660	8,845,098
<i>The products in tons, tons—</i>			
Agricultural	2,232,989	1,173,206	1,658,121
Animal	291,887	227,137	299,519
Mine	4,815,922	3,731,120	3,652,333
Forest	1,355,966	1,322,799	1,131,597
Manufactures and miscellaneous	4,310,979	3,525,597	2,795,638
Total	12,825,988	10,863,660	8,845,098



One of the New Diesel-electric Locomotives Built for the C.P.R. Weight ready for service is 115 tons, and starting tractive effort is 50,000 lbs.

tives is expected within the next few months, and they also, for the time being at least, will be assigned to yard service in the Montreal area.

The following information in regard to the new locomotives is as contained in advice received from the C.P.R. Publicity Department.

More efficient in switching operations and more economical to operate than the steam locomotives, the Diesel-electrics require refuelling only once every three days and routine inspection only once a month, compared with daily refuellings and inspections necessary with steam locomotives. These new

the C.P.R. The control equipment has been made so simple that very little instruction is necessary to make the driver familiar with the operation.

Built by the American Locomotive Company of Schenectady, N.Y., with the electrical equipment supplied by General Electric, all five locomotives, for the time being at least, will be assigned to Canadian Pacific yard service in Montreal. Though the company has had the experience of operating one 600 h.p. Diesel-electric locomotive during the past six years, the new

C.N.R. Construction Work

Canadian National Ry. received tenders to July 22 for the construction of concrete subways and timber trestles on the Butler Street line, Montreal, and to July 30 for construction of a new engine terminal at Lac Edouard, Que.

Railway Tie Association Meeting

The Railway Tie Association has completed plans to hold its 26th annual meeting at the Netherland Plaza Hotel, Cincinnati, Ohio, May 16-17, 1944.

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to handle the heavy volume of war traffic passing over C.P.R. lines. Delivery of the additional three locomotives is expected within the next few months, and they also, for the time being at least, will be assigned to yard service in the Montreal area.



One of the New Diesel-electric Locomotives Built for the C.P.R. Weight ready for service is 115 tons, and starting tractive effort is 49,000 lb.

The following information in regard to the new locomotives is as contained in advice received from the C.P.R. Publicity Department.

More efficient in switching operations and more economical to operate than the steam locomotives, the Diesel-electrics require refuelling only once every three days and routine inspection only once a month, compared with daily refuellings and inspections necessary with steam locomotives. These new engines constitute a distinct forward step in the strenuous task of maintaining and speeding up the heavy flow of war freights in the Montreal terminals.

Cleaner, faster and quieter than the conventional yard engine, the new Diesel-electrics, which have been used with considerable success by railroads in the United States, can haul a load of 5,000 tons at slow speeds on level track and have a starting tractive effort of 69,000 pounds. Their weight in loaded condition is 115 tons. They are powered with one six-cylinder, 1,000 horse power, supercharged Diesel engine which runs at 740 revolutions per minute. Their over-all length is 45 feet, 6 inches.

Due to their very short length and the use of four-wheeled driving trucks, the new locomotives can operate any-

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Railway Freight Traffic

Freight loaded on Canadian railways and received from foreign connections in tons

	1943	March, 1942	1941
Prince Edward Island	29,279	31,129	27,513
Nova Scotia	781,247	824,899	772,267
New Brunswick	461,848	364,726	273,238
Quebec	2,252,513	2,081,970	1,495,878
Ontario	4,628,879	5,071,666	4,327,873
Manitoba	224,619	206,251	202,487
Saskatchewan	618,296	497,002	220,593
Alberta	856,214	604,388	523,521
British Columbia	808,958	829,552	739,226
Total	12,922,948	10,602,660	8,867,008
The products in tons, 1943 —			
Agricultural	3,223,910	3,173,296	1,646,321
Animal	391,447	287,437	290,519
Mine	4,615,055	5,711,458	3,652,535
Forest	1,365,946	1,322,706	1,131,597
Manufactures and miscellaneous	4,316,679	3,528,467	2,799,336
Total	12,922,948	10,602,660	8,867,008

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At Controls of Diesel-electric Switcher.



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