CANADIAN
PACIFIC
EXPRESS
TRUCKS.

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The vehicle equipment is of the platform type, with body specially designed to offer proper protection and to permit quick and safe handling of freight traffic at both the terminal and the shipper's warchouse. All vehicles are painted Killarmey green, and lettered "Canadian Pacific" on the side panels, and the Canadian Pacific freight crest is displayed on the cab doors. Each vehicle is equipped with a tan tarpaulin, and the whole turnout has a very smart appearance. The trucks are of from two to five tons canacity.

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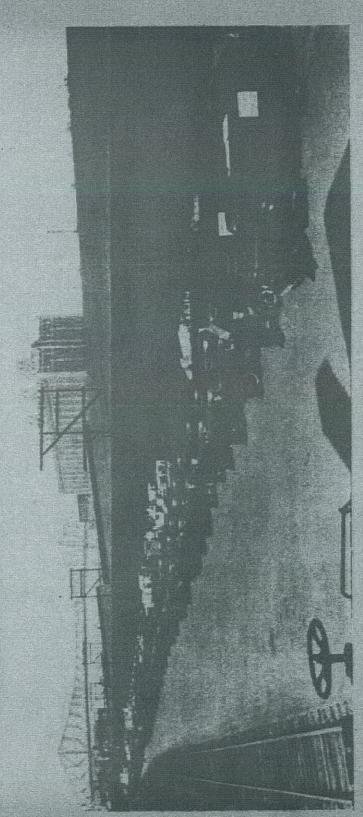
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Transporting Cattle by Truck,—All readers are to doubt more or less acquainted with the growth which has straken place In recent years in the transportation of cattle to markets by trucks. This development has progressed to such an extent that a large percentage of all cattle marketed is transported direct from the farms by truck. Recontly, the United States Department of Agriculture issued figures showing that 56% of all cattle and 67% of all calves received at the principal markets in the United States arrive at such markets in trucks.



The Ninety-iwn New Trucks which are Employed by Canadian Pacific Express Co., Cartage Department in Providing the C.P.R., Pick-up and Delivery L.C.L. Preight Bervice in Genetic Montreal.

. "The autobus depreciation reserve, on December 31st, 1936, stood at \$709,and Canadian Pacific Express Co. Cartare Department trucks were placed in service it Ottaws on March 1, and they perform the freight-pickeup delivers service for the Canadian Farific By. Similar service was begun March 1 at Sherbrooke. One, and will be begun at Montreal May I. 127 122 68 51.21 179 504.37 * 57.351 59 220,409.12 55.35 188,129.21 #22,279.41 Againgains accamons. 1,319,405.95 1,446,728.68 20,776,032 22,135,366 *Deficit. 1935 5,757,230 1936 5,826,951 †Aug. 8 to Dec. 31. 1986

the Public Service officials adopted a Diesel-electric drive developed by General Electric Company. In this design the engine is located at the rear of the bus body and above the rear axle. The Diesel is direct connected to the generator and all the infinite speed variations of the bus wheels are accomplished through electrical control. It is possible to obtain a high torque at the wheels at a low speed, as well as a low torque at high speeds.

"By direct coupling of the engine and generator, the torque reaction of the engine is counteracted and cancelled out by the opposite torque reaction of the generator. There is, then, an absence of vibration in the engine at idling speeds.

Mack Short Wheelbase, Traffic Type Trucks in Canadian Pacific Express Service

The accompanying illustration is of one of a number of trucks, with Mack Ir. model 21MT truck type chasses and bodies built locally, which were placed in Canadian Pacific Express Co. service in the Toronto area, recently. With wheelbase of 147 in, these models have short length over all, making for maximum ease of handling and thus making the vehicles particularly suitable for hauling in dense city traffic, and where restricted space for loading and unloading is the rule. With 65% in track, front and rear, the tires are 6.00-20 all around, dual at rear. The engine is a

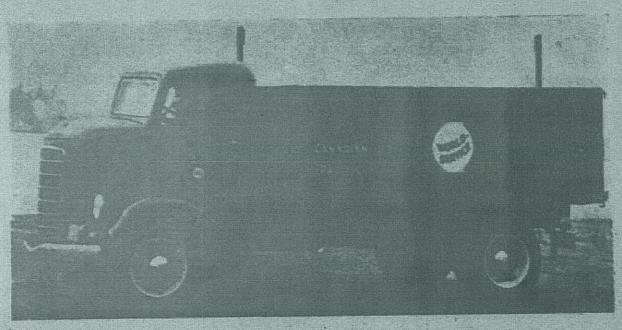
the transmit braking surf The front

The front with 17 lear 50 x 2½ in, plate. The ganese steel 7½ in deep is of carbon material hatensile strenyield point 31% elongal

The steer lever type, spoke type through Zer

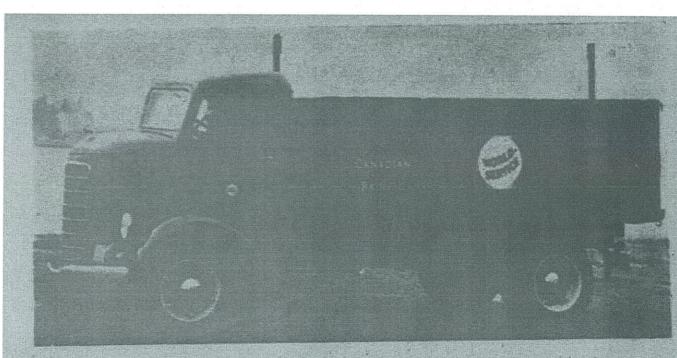
Vehicle Si

A move the sizes an employed by freight and States, is Nov. 8, in the U.S.A. mission fol Washington matter of sizes and v combination common at transportat common, c in the tra interstate of 204 (a) (1) of the Mo under con appearing investigation tuted into for the foll the Commi the provisi Waletmen



A Recent Addition to Canadian Pacific Express Co. Motor Vehicle Fleet.

This is one of the Mack Model 21MT units, of 147 in. wheelbase, placed in service by the Express Company, recently.



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ras not suitable for short-haul, manytop routes. It was claimed that the uel savings would be negligible and the peration objectionable to the pasengers.

"To the contrary, it was found that a liesel bus covered a given route in beter time; was able to accelerate from stop much faster than a gasoline ngine, due to the electric drive; that here was an absence of exhaust was

"The bus driver finds that the Diesel ous handles easier and he experiences ess fatigue. No driver has a definite us to handle; each bus is operated by he men on the four shifts per day.

"The same men who service the gasoine-engined buses have proved to be ully competent to make all necessary djustments on the Diesels. It has been ound that the amount of maintenance equired for the Diesels is no greater han the records for gas units. As much s 40,000 miles have been covered by a liesel bus without engine overhaul.

"In spite of opinions of some whose liesel experience had been limited, the ngines have handled No. 2 household uel oil with entire satisfaction, and comlete combustion exists even at idling peeds.

"The entire problem of insuring satisactory lubrication was placed in the ands of the Tide Water Associated Oil io., who specified the oil best fitted for hese Diesels. No sludging trouble has occurred, the bearings have held up and

"When the 27 buses were converted to 6-cylinder one, with cylinders 3% in. jesel drive there was considerable com- bore by 414 in stroke. Piston displacenent in various quarters that the Diesel ment is 228 cu. in., and h.p. developed is 74 at 3,000 r.p.m. The torque is 150 It. lb, in the speed range of from 800 to 2:000 r.p.m. Compression ratio is 5.36:1. The cylinder block is of chrome nickel steel, and the cylinders are cast in block, with detachable one-piece head. The crankshaft operates in seven bearings and is counterbalanced with four counter weights. The total bearing area is 88.119 sq. in. The connecting rods are of manganese steel. A 20-gall, tank is mounted at the right side of the frame. and fuel feed is by a mechanical pump. Lubrication is by full force feed through rifle-drilled oil passages.

> The clutch is a heavy duty, dry, single plate type, 10 in diameter, with 108 sq. in. frictional area. The transmission provides four speeds forward, and the helical countershaft drive ensures quiet operation. There is a large size S.A.L. power take off opening at the right side. The standard gear ratios are: High, direct; third, 1.94:1; second, 3.63:1; first, 6.72:1; reverse, 8.07:1.

> The rear axie is a full-floating new design, with spiral bevel gear drive Tapered roller bearings are used throughout, with straddle-mounted pinion with four-pinion differential. The standard gear ratio is 5.83:1.

> The brakes are of the internal expanding type, applying on all four wheels, with hydraulic actuation. The front brake drums are 15 x 2% in., giving 140 so, in, of braking surface, and the rear drums are 16 x 214 in., providing 149 sq. in. of surface. The hand brake acts on an external drum at the rear of

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CANADIAN TRANSPORTATION

the transmission, with 494 sq. in. of

braking surface.

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The front springs are 36 x 214 in., with 17 leaves, and the rear ones are 50 x 2½ in., with 15 leaves and rebound plate. The springs are of silico-manganese steel. The frame, with section 7½ in deep, 3 in wide and ¼ in thick, is of carbon steel, S.A.E. no. 1025. This material has section modules of 5.67 material has section modulus of 6.67, tensile strength of 66,000 lb, per sq. in., yield point of 31,000 lb. per sq. in., and 31% elongation.

The steering gear is of the cam and lever type, and the wheels are of cast spoke type. Chassis lubrication is through Zerk pressure fittings.

Vehicle Size and Weight in United

DECEMBER, 1937

This des the cane

In the preliminary Canadian Transportation 405, of the ten Dieselconventional type bus Car Manufacturing Ca. by Associated Equipme Ltd., to the British Ry. Co., it was mention chasses employed in the first to be imported the new A.E.C. electr

Express Trucks Perform Canadian Pacific Cartage Service

The new system is in operation at Ottawa, Sherbrooke and Montreal, and, effective June 1, is being extended to Three Rivers and St. Hyacinthe.

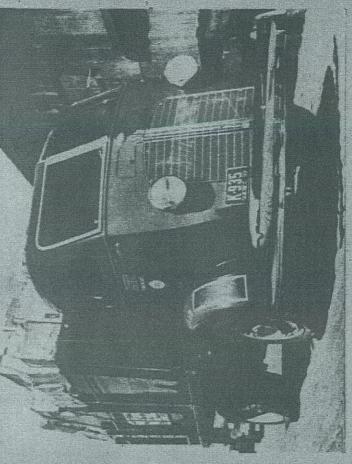
ng, 242, by an Hustration and cappen, to the argaingment placed in effect at Ottawa, March I, by which trucks operated by the Canadian Pacific Express Co. Cartage Department are performing the pick-up and delivery service for the Canadian Pacific Ry, in connection with the handling of Lc.l. freight shipments. Greater Montreal, where it was begun strated its value. The Canadian Pacific outside Attention was called in the May issue After only one month's operation in iny 1, the new service has fully demon-Cartage Department perof the funccartage agents, and brings both the railcloser contact with shippers and way and its express subsidiary forms for the railway all SXPRESE CO.

The drivers operating the cartage vehicles are salaried employees of the Canadian Pacific Express Cu. Cartage Department. They are uniformed in blue drill overalls, and windbreaker, with a driver's cap and badge. The cap badge reads 'Canadian Pacific' and shows the company's freight creat.

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