

MELBOURNE AND METROPOLITAN TRAMWAYS BOARD

ROLLING STOCK DEPARTMENT

ANNUAL REPORT

FOR YEAR ENDING - 30TH JUNE, 1940

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The principal features of the work in this Department during the year were the construction of bus bodies for the Bourke Street conversion, the design and construction of equipment for the new Central Garage and the manufacture of military equipment at the Preston Workshops for the Commonwealth Defence Department.

With thirteen new S.W.5 and S.W.6 cars completed during the year it is possible to run the ordinary electric services without using the old maximum traction class "C" cars. These cars however have still to be used for mid week race specials and a regular military special from Caulfield.

The daily traffic peak at the beginning and the end of the year required the following cars:-

	<u>Bogies</u>	<u>Single Truck</u>	<u>All-night</u>
1st. July, 1939	529	17	13
30th June, 1940	539	12	13

The following is a summary of the work carried out in the various sections of the Rolling Stock Engineer's Department during the year.

MAINTENANCE - ELECTRIC ROLLING STOCK

PRESTON WORKSHOPS

On the regular maintenance programme, 1184 electric cars passed through Preston Workshops, of which 249 received general overhaul including cars re-varnished and re-enamelled, and 155 cars were waxed.

ELECTRIC RUNNING SHEDS.

The wheel grinding plant at the Malvern, Hanna Street, Kew and Coburg Depots treated 3588 cars for flats, compared with 4074 last year. In addition, 12 single truck cars were treated with carborundum truing blocks at the Footscray Depot.

The average number of electric cars available for traffic at the peak period, averaged for the year 94.77 per cent of the total stock.

The number of electric cars changed over for defects in the equipment, was 720 out of a total number of changeovers of 2310. The mileage per changeover for defects, was 28,560.

The emergency break-down truck at Hanna Street Depot was called out on 189 occasions during the year.

MAINTENANCE - BUSES

PRESTON WORKSHOPS

Buses sent to Preston Workshops, included 3 for new flooring, 29 for accident repairs, 2 for fitting of dust plates, 2 repainted and 1 for alterations to windshield.

CONSTRUCTION AND GENERAL - PRESTON WORKSHOPS

NEW ELECTRIC ROLLING STOCK - completed and handed over for service.

5 - Class SW5 - with sliding doors, semi-bulkheads to saloon, hopper windows, lined ceilings and dome light fittings. This completes the total of 10 of this class.

8 - Class SW6 - similar to SW5 class but with throw-over seats in saloon and special finish.

There are 21 of this class of car now under construction. The total of this class, when the existing order is complete will be 40.

NEW BUSES

SINGLE DECK BUS BODIES BUILT AT PRESTON

A total of 26 single deck all metal bus bodies with rear drop ends were constructed and mounted on Leyland Tiger chassis, including one with the Erren system for gas operation.

DOUBLE DECK BUS BODIES BUILT BY CONTRACTORS

A total of 44 all metal double deck bus bodies were constructed and mounted on Leyland Titan chassis by three contractors, two local Melbourne firms building 17 each and an Adelaide firm building 10.

Much of the material including pillar and floor bearer sections, roof ribs and many parts for the double deck buses were made at the Preston Workshops.

DOUBLE DECK SAMPLE LEYLAND BODY

This body was erected and mounted on a Leyland Titan chassis but the paint work and upholstery was not finished as the bus was required by the traffic department for the training of drivers.

IMPROVEMENTS TO ELECTRIC ROLLING STOCK

	<u>For</u> <u>Year</u>	<u>Total</u> <u>Completed</u>
New type Motorman's seats to service cars.	208	488
Self-lapping valves to service cars.	58	327
New type route boxes to 250 service cars.	180	257
Stainless Steel Toe guards to Cars 720-789.	39	39
Raising Line Breakers on Class "W2" Cars.	19	387
Alteration to brake rigging on No. 1 Trucks (completed).	42	408
"W2" cars converted from 26", to 28" wheels.	7	31
Extra lighting circuit in service cars.	80	280
Rewiring of service cars.	19	54
Motorman's Gongs adjusted (completed).	8	558
Red Reflectors on Tram Cars.	94	94

DEFENCE WORK

A commencement was made on the manufacture of superstructures for folding boat and pontoon bridging equipment for the Commonwealth Defence Department. This work covers 38 items in quantities varying from 16 to 2470 per item or a total quantity of 15,490. Satisfactory progress is being made with this work.

NEW WORK FOR OTHER DEPARTMENTS.

In addition to making standard parts for other Departments the following new work was carried out.

CENTRAL BUS GARAGE.

620 Lockers for staff.

15 Fitters' Benches.

Engine and axle stands.

Fittings and stairways for Oil Fuel Tanks.

Racks for storing tires, drums etc. and other fabricated steel work.

GENERAL

One Pay Van body on a new chassis was built for the Treasurer's Branch.

4 Bogie Trucks for the Hobart Tramways and 4 nearly completed.

SPECIAL MAINTENANCE FOR OTHER DEPARTMENTS

In addition to routine repair work for other Departments the following special overhaul work was carried out.

PERMANENT WAY DEPARTMENT

Special overhaul was carried out on No. 1 Rail Grinder, Thompson road roller, Malcolm Moore Road Roller, 3 Beater Packers, 2 Concrete Mixers, Bitumen Mixer, Lewin Cleaner, Tie Tampers etc.

FOUNDRY

The output for the 12 months was:-

Gunmetal castings	52,409 lbs.)	} Total 63,579 lbs.
Aluminium "	9,005 "	
Lead and Solder	2,161 "	
Ingot copper & castings	4 "	

DRAWING OFFICE, PRESTON WORKSHOPS

A total of 568 drawings was made during the year and 4049 prints were taken.

The drawings included 97 made for the double deck buses and 96 made for equipment required for the Central Garage, together with specifications, quantities and estimates.

LABORATORY.

This Branch carried out numerous tests for the Shops, Stores and other Departments during the year, including the following.

Motor Fuel and Oils - 1393 tests.

Stores Schedules - 470 tests, including the measuring and examination of 311 rolls of uniform cloth.

Acidity tests were carried out for the Distribution Department, also service tests on gear greases, bearing metals, etc.

CABLE SYSTEM

Owing to the strike of coal miners no coke was delivered to the Engine Houses from the 16th to 27th May and the plant was operated from our reserve stock of fuel.

The Engine House stoppages for the year were:-

15 for engine or rope defects totalling 155 minutes, and 33 for accidents, road blockages, etc., totalling 326 minutes.

During the year 4 main ropes and 8 auxiliaries were changed, involving the handling of approximately $41\frac{1}{2}$ miles of rope.

On ordinary maintenance and accident overhaul the Cable Running Shed Staff attended to 596 vehicles for mechanical defects and 962 vehicles for body defects. The brakes and undergear of 35 cars and 49 dummies were renewed. 135 grips were overhauled at Preston Workshops.

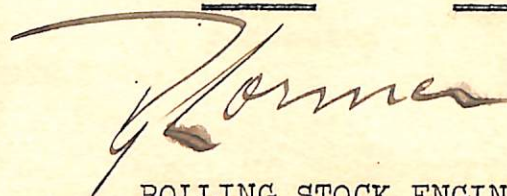
The stock of cable rolling stock is now 81 cars and 94 dummies. 17 cars and 1 dummy were disposed of during the year.

GENERAL

STAFF.

The staff for the various sections of the Rolling Stock Engineer's Department, excluding 1 Officer and 22 men on War Service, is as follows:-

	<u>Official</u>	<u>Others</u>	<u>Total</u>
Head Office	3	-	3
Preston Workshops	35	424	459
Electric Running Sheds	18	257	275
Cable Running Sheds	1	29	30
Power House System	<u>4</u>	<u>68</u>	<u>72</u>
	61	778	839



ROLLING STOCK ENGINEER.

MELBOURNE AND METROPOLITAN TRAMWAYS BOARD

SUMMARY SHOWING STOCK OF SERVICE ELECTRIC
CARS AT 30TH, JUNE, 1940

CLASS	TYPE	SHORT DESCRIPTION	NUMBER AVAILABLE FOR SERVICE	NOT YET COMPLETED
SW6	Bogie	Similar to SW5, but with Throw-over seats in saloons.	9	31
SW5	"	Similar to W5 but with air operated sliding doors, half-drop windows and small hopper windows in saloons, lined ceilings and dome lamp fittings.	10	-
W5	"	Steel framed car with upholstered cross seats in saloons, on trucks with 28" wheels.	120	-
W4	"	Modified W3 class with upholstered cross seats in saloons.	5	-
W3	"	Modified W2 steel framed, on trucks with long leaf springs and 33" wheels	16	-
SW2	"	W2 Car fitted with air operated sliding doors.	4	-
W2	"	Standard composite frame car with cross seats in open compartment and longitudinal seats in saloons, on trucks with 26" wheels.	406	-
Y & Y1	"	Enclosed car with folding doors and cross seats.	5	-
L.	"	Taken over from P. & M. T. T. Forerunner of W. class.	6	-
CW5	M.T.	W.5 body mounted on maximum traction trucks.	5	-
C.	M.T.	Max. traction taken over from P. & M. T.T. and H.T.T. Will be out of service when further SW6 class are ready for service.	31	-
C.	M.T.	C. class body converted for special purpose. (Dog Car).	1	-
BOGIE CARS - TOTAL			618	
X, X.1 & X.2	Single truck.	Enclosed safety cars with folding doors and cross seats.	18	
		"	Old type Single Truck Cars	16
		"	" " " " converted for all-night services.	25
T.	Radiax	Old Coburg cars	5	
T.	"	" " " converted for all-night service .	1	
SINGLE TRUCK CARS - TOTAL			65	