





The Commission retained only 2766, the last car to have operated, for limited charter service. But in 1973, the TTC inauguarted its "Belt Line Tour Tram" service, and car 2766 was joined by 2884 (leased from the Ontario Rail Association) and the next year by 2424 (leased from the Ontario Electric Railway Historical Association.

Although this summer operation has been discontinued, the 3 cars are still used on charters and "Trolley Tours" as required.

A number of other Witts have been preserved, some operational; and some "bodies" have been reclaimed from the landscape to be resident as operating whichies. The first car (2300) is preserved and displayed by the Canadian RR Historical Association. Others are: 2778 (N. Ohio Museum), 2786 and 2890 (OERHA), 2898 (BERA) and 2894 (OERHA).

Condensed Roster

FLEET NUMBERS	1921	ASS 1923 OR CA	BUILDER & DATE	REMARKS ERS)
2300 — 2498	A	К	OC & F Aug. — Oct/21	Large Witt; 2300-2478 to 1 man; 2450-2478 back to 2 man
2500 — 2578	В	L-1	CC & F Oct/21 — Jan/22	Large Witt
2580 — 2678	C	м	Cdn. Brill Jan. — May/22	Large Witt ("Brill")
2700 - 2798	E	P-1	OC & F Dec/22 — Jan/23	Small Witt; to 1 man
2800 — 2898	G	P-2	Ottawa May — Sept/23	Small Witt; to 1 man
2900 — 3018	Н	L-2	CC & F June — Sept/23	Large Witt
	TE	RAILER	RS (ODD NUMBER:	S)
2301 — 2419	D	N	CC & F Oct. — Nov/21	2 door
2701 — 2899	F	Q	CC & F Feb. — Apr/23	
2901 — 3029	F	Q	CC & F Apr. — May/23	3 door ("Harvey")
Ordered: 1921 1922 1923	-E	B, C, D F (1st 1 2nd 65	100), G	

PETER WITT CAR

Montreal.

within the totals, as follows:

When the Toronto Transportation Commission was formed in 1920. its immediate task was to both integrate and rehabilitate the services and physical assets of the Toronto Railway Company, the Toronto Civic Bailway, and the "city" portions of the lines of the Toronto and York Radial Railway.

The TCR had a small and relatively modern fleet of 70 double-end cars, which would prove very effective on light traffic and "stub end" routes for several years to come, as well as providing transitional services while routes were relaid and expanded. On the other hand the TCR's fleet of almost 900 cars ranged from antique open cars to relatively large double-truck cars, only a few years old but of wooden construction. The Commission and the City elected to accept only 830 TRC vehicles, of which only half (417) were considered acceptable vehicles, even though most required modernization.

Faced with the need for a large fleet of new vehicles to both maintain and expand service, at improved levels of comfort, speed and frequency, the Commission selected a design new to Canada - a front entrance, centre exit, "Pay As You Pass" 2 man operated car of steel sheathed construction, large passenger capacity, and capable of hauling a trailer. The design had originated with Peter Witt. (the street railway Commissioner of Cleveland) in 1914, and had been built for major systems in the United States. For the TTC, the design was distinctively engineered and produced by Canadian Car and Foundry of

Between April of 1921 and early 1923, the Commission ordered 575 cars - 350 motors and 225 trailers. However there were variations

Mo	tor Cars			
250	equipped with couplers (to pull trailers)	200	CC & F 1921/22/23	
		50	Cdn. Brill (Preston) 1922	WITT
100	lightweight, no couplers	50	CC & F 1922/23	SMALL
	couplets	50	Ottawa Car	WILL

(Cdn. Westinghouse, Cdn. General Electric and English Electric shared in the motor and control contracts)

Trailers

by Asst. GM

65 3D Trailers

60	Two Door	CC & F 1921	2 DOOR TRAILER
165	Three door	CC & F	3 DOOR

D.W. Harvey!

************************** The vehicles were ordered and delivered as follows:

and built 57 miles of new track all within 3 years.

and non-skid flooring. (1936-1947).

60	2D Trailers	1921	Aug/21 - May/22
	Small Witt a 3D Trailers	1922	Dec/22 — Sept/23
	Large Witt)		December 300,000

1923 April - Sept/23 Due to the introduction of 51 ft. long cars, 81/2 ft. wide, much of the TRC narrow devil strip trackage had to be relaid to provide clearance, in addition to the majority of it requiring replacement due to age. Just as the Rolling Stock and Shops Department commissioned vehicles almost immediately from their unloading, so did the Way Department rebuild and relay over 53 miles of old track, replaced 80 intersections

The first Witt cars entered service on the "Broadview" route on October 2, 1921, and by July 1, 1923, they were operating on 7 routes Trailer operation commenced October 17, 1921 and was used on 5 of the 7 routes.

Over its 40 year service life with the TTC, the design underwent two major modifications, as well as many minor changes

- (a) Conversion of 90 of the Large Witts, and all of the Small Witts, to 1 man operation, with control changes and coupler removal (1933-
- 1941). 15 cars were reconverted to 2 man in 1949. (b) Modernization of all motor cars to provide electric heating, nonenclosed motorman's area, leather covered foam seat cushions

With the introduction of first the PCC cars, and then the subway routes, the Witt fleet slowly declined. Two-man cars and trailers, disappeared in 1953-55, followed by the Large Witt one-man cars in 1956-1961, and the Small Witts in 1962-1965, six of them having last operated on April 24, 1963.

Principal Specifications:

	1 man		
	Large Witt	Small Witt	Three Door Trailer
Length over anti-climber	51' 10"	47" 0"	47' 2"
Width over belt rail	8' 6"	8-6-	8.6-
Height — to top of roof	11' 1%"	10" 8%"	10" 4%"
- to top of base	12'0"	11' 7"	
Truck Centres	26' 0"	22' 6"	26.0.
Truck wheelbase	5' 10"	5"4"	42
Wheel diameter	31"	26"	22"
Track Gauge	4" 10%"	4" 10%"	4" 10%"
Minimum horizontal curve radius	36"	32"	30"
Minimum vertical curve			
radii — convex	350"	350'	350'
- concave	700"	700*	700°
Seating	58	51	60
Weight — Tare (W1)	50,000 lbs	39,700 lbs	26,800 lbs
- Normal (W4) (Service)		55,750 lbs (106 passgrs.)	43,300 lbs (109 passgrs.)
- Crush (W5)		60,100 lbs	47,200 lbs
	(145 passgrs.)	(135 passgrs.)	(135 passgrs.)
ontrol	Single end	Single end	****
otor rating		4 West, 510A 35 HP ea (1 hr)	_
erformance:		ing: based on tar volts, level track)	
ime to speed	25 MPH/30 sec	s 20 MPH/12 se s 25 MPH/20 se s 30 MPH/42 se	cs
		3.7 MPH/42 SE	
Braking rate: Service:	3.6 MPHPS 3.8 MPHPS	3.7 MPHPS 3.9 MPHPS	
Emergency:	3.8 MPHPS	3.9 MPHPS	

