

EXHIBIT No. 37.

WESTINGHOUSE-BRAKE TEST MADE AT NEWMARKET on the 20th August, 1907.

Held on 1-in-40 grade. Train-pipe charged to 70 lb., and a reduction of 35 lb. made. Train consisted of 1 empty 30 ft. brake-van, 1 Class K wagon partly loaded with goods, and 3 Class L and 1 Class LA wagons loaded with coal.

Vehicle.			Piston-travel.	Pressure in Brake-cylinder at reduction.	5 mins.	10 mins.	15 mins.	20 mins.	25 mins.	30 mins.	35 mins.	40 mins.	45 mins.	50 mins.
F 176	..	..	In. 6½	lb. 45	lb. 42	lb. 33	lb. 25	lb. 23	lb. 21	lb. 19	lb. 17	lb. 15	lb. 13	brake off.
K 518	..	..	4	47	42	34	25	23	22	19	17	15	13	Ditto.
L 3373	..	..	3¾	48	42	37	25	23	22	20	18	16	13	"
L 4949	..	..	3¾	52	47	42	30	26	24	22	18	16	12	"
LA 7334	..	..	3¾	45	40	37	24	22	21	19	17	14	11	"
L 3649	..	..	4	52	42	37	24	22	21	19	16	14	11	"
				35*	45	33	27	24	22	20	18	17	13	..

* Train-pipe.

NOTES.—All brakes applied. At fifty minutes after brakes applied the whole of the brakes on above vehicles came off together, and vehicles moved down-grade on to two bogie wagons placed on grade for that purpose. The brake-van was taken from workshops yard after being painted, but brake not overhauled lately. The wagons were taken out of traffic at Newmarket Station for the purpose of this test.

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PARTICULARS OF WESTINGHOUSE-BRAKE TRIALS held in New South Wales in 1891 by a Board appointed to inquire into the Efficiency of the Westinghouse Continuous Brakes for Goods-trains.

(New South Wales Parliamentary Paper, Second Session, 1891, Legislative Assembly.)

Test for Brake leaking off.

On 1-in-30 grade, engine made full application of brake, and then cut off.

Number of Minutes after Application of the Brake.	Pressure in Reservoir of Van.	Pressure in Brake-cylinder of the Van.	Remarks.
0	Lb. 67	Lb. 62½	Pressure in train-pipe and reservoir before application of the brake was 80 lb.*
18	40	35	
32	25	25	
39½	...	...	Brake of one wagon leaked off.
42	...	...	Brakes of two wagons leaked off.
47	19	13	
50½	...	...	First four wagons moved a few inches down-grade.
62	14	4	
65	...	0	
77	11	0	
80	9	0	Gauge stuck at 9 lb.
83	...	0	Train moved down-grade to engine.

EXHIBIT No. 40.

JOHN LAMBERT TAYLOR.

Born September, 1881.

1900, April 15.—Casual junior labourer, Newmarket.

" " 13.—Cleaner, Auckland.

1901, August 3.—Examined and passed for spare fireman.

1905, May 13.—Examined and passed for spare driver.

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