

COST OF PERIODICAL REPAIR AND OVERHAUL of 80 "Aged"

and 14 more recently built DUMMIES effected in 1915. (usually each three or four years) Damages excluded.

Lowest consecutive numbers selected.

Built 1885/6. Nos. 1 to 71.	Built 1887. No. 100/179.	Built 1889. Nos. 246/323.	Built 1890. No. 355/429.	Built 1907 & 1912. Nos. 449/477	
33. 8. 7	30. 8. 11	41. 5. 7	37. 2. 1	31. 12. 4	8 yrs.
36. 18. 7	34. 12. 7	39. 12. 8	42. 11. 2	29. 0. 0	" "
38. 13. 9	37. 16. 11	39. 4. 3	42. 1. 4	31. 14. 9	" "
36. 1. 9	37. 2. 11	24. 10. 11	38. 17. 10	28. 12. 5	" "
41. 16. 3	43. 14. 0	33. 16. 10	37. 16. 0	22. 12. 1	
32. 5. 11	45. 15. 2	42. 4. 10	30. 13. 6	34. 0. 7	
29. 11. 10	46. 19. 10	35. 16. 0	40. 17. 10	30. 16. 6	
35. 15. 2	41. 12. 3	38. 11. 3	37. 13. 10	30. 6. 0	
37. 6. 3	54. 13. 11	34. 15. 7	43. 1. 11	27. 16. 6	
34. 7. 2	44. 14. 5	37. 16. 10	34. 19. 3	29. 8. 9	
33. 2. 9	35. 19. 6	35. 8. 11	36. 13. 10	30. 15. 7	
31. 16. 2	37. 18. 6	35. 17. 1	38. 1. 3	28. 9. 7	
34. 5. 8	39. 2. 11	41. 7. 4	39. 14. 2	33. 2. 9	
44. 9. 6	36. 9. 7	51. 6. 10	36. 7. 9	29. 12. 2	
43. 5. 10	38. 14. 8	41. 10. 3	37. 18. 8		
36. 16. 2	25. 16. 8	32. 17. 9	32. 15. 9		
32. 19. 6	34. 10. 9	31. 19. 8	35. 16. 2		
36. 2. 7	33. 0. 6	36. 18. 5	32. 15. 1		
35. 0. 3	31. 12. 1	32. 13. 8	41. 7. 11		
31. 1. 11	34. 15. 10	32. 0. 8	34. 5. 5		
709. 5. 7	767. 11. 11	744. 15. 2	757. 12. 9	418. 6. 0	

Average

35. 9. 3	38. 7. 7	37. 4. 9	37. 17. 7	29. 17. 7	Average 14 Dummies
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Average 80  
Dummies.

= £ 37. 4. 10

Shows again that the average repair of 80 Dummies built 1885/1890 was.... £ 37. 4. 10

Whilst the same repair to 14 Dummies built 1907/12 was ..... 29. 17. 7

£ 7. 7. 3

The "Aged" Dummies therefore, cost 24.6% more to repair than Dummies built in 1907 & 1912. In addition to this, the "aged" Dummies appear to come in for overhaul oftener than the newer cars.

Memo.- 30 "aged" dummies were selected at random, and the whole of the more recently built dummies which were repaired in 1915, were taken. (Fourteen). Four of the fourteen dummies were 3 years old before coming in for overhaul.

COST OF PERIODICAL REPAIR AND OVERHAUL OF 80 DUMMIES

effected in 1914. Damages excluded.

Lowest consecutive numbers selected.

Built 1885/6. Nos. 1/48.	Built 1887. Nos. 102/40.	Built 1889. Nos. 247/97.	Built 1890. Nos. 356/425.	Built 1906/12. Nos. 437/466.
40. 1. 1	38. 7. 5	47. 1. 6	38. 18. 3	33. 5. 3
34. 4. 8	39. 10. 5	51. 5. 10	34. 4. 11	35. 1. 2
30. 18. 2	36. 9. 1	29. 0. 5	36. 12. 8	22. 19. 4
31. 19. 0	33. 19. 3	41. 5. 8	40. 7. 3	
38. 14. 0	21. 12. 5	42. 8. 4	43. 5. 4	
37. 6. 11	46. 7. 3	36. 1. 3	46. 4. 9	
37. 13. 8	39. 14. 6	41. 14. 1	46. 16. 11	
38. 17. 10	43. 12. 9	46. 4. 9	45. 11. 11	
33. 3. 2	48. 14. 4	37. 4. 11	42. 4. 7	
47. 3. 8	33. 10. 7	35. 9. 5	37. 11. 2	
41. 3. 3	35. 15. 6	32. 11. 8	45. 8. 2	
46. 8. 0	30. 16. 8	40. 12. 8	38. 13. 2	
41. 9. 8	31. 5. 10	44. 8. 3	38. 14. 10	
48. 13. 1	43. 5. 2	39. 15. 6	37. 19. 3	
30. 16. 0	35. 19. 2	46. 4. 11	28. 19. 1	
51. 8. 11	33. 1. 10	38. 13. 11	33. 9. 5	
57. 10. 9	28. 19. 8	43. 5. 4	38. 13. 6	
45. 9. 6	42. 2. 2	46. 7. 10	33. 3. 0	
49. 15. 8	38. 11. 2	34. 9. 8	39. 3. 2	
43. 15. 5	42. 4. 1	35. 10. 5	39. 10. 4	
826. 12. 7	743. 19. 3	809. 16. 4	785. 11. 8	91. 5. 9

Average 41. 6. 7 37. 3. 11 40. 9. 9 39. 5. 7 30. 8. 7  
Average for 3 Dummies..

Average 80 Dummies ) = £ 39. 11. 6

Shows that the average repair of 80 dummies built 1885/1890 was..... £ 39. 11. 6  
whilst the average repair of 3 dummies built in 1906/12 was.... 30. 8. 7

The "aged" dummies therefore cost 30% more to repair £ 9. 2. 11 than the three dummies built in 1906/12.

Memo. - Only three dummies built in 1906/12 were repaired in 1914 & two of the three dummies were 8 & 7 years old respectively without previous repair. Three dummies is too small a number upon which to base a fair average, but the figures, as far as they go, practically agree with the larger averages shown in the previous statement.

50 DUMMIES BUILT 1906 to 1912.

COST OF REPAIRS (excluding damages), including "accrued" repairs to 31st December 1915 during the whole of the lives of 50 Dummies built 1906 to 1912.

Car No.	Built.	Repairs effected to 1915.	Accrued at 31/12/15.
327		7. 5. 8	11.16. 5
8		8.18. 3	3.18. 8
435		7.14. 1	3.16. 0
6	10 Dummies built in 1906.	23.11. 1	18.14. 0
7		40.18. 8	8. 1. 4
8		11. 1. 4	16.10.10
9			2. 4. 8
440			
1			3. 5. 0
2			6. 7. 8
443			3. 5. 0
4			3.12. 4
5			6.15. 0
6			3.13. 8
7			8.19. 8
8			8.15. 4
9		31.12. 4	4. 8. 4
450		35.19. 1	2.13. 8
1	20 Dummies built in 1907		1.14. 8
2		35. 1. 2	3. 0. 8
3		29. 0. 0	3.18. 0
4			2.12. 0
5		31.14. 9	4.15. 0
6		28.12. 5	2. 3. 4
7			3. 5. 0
8			1.19. 0
9			1.19. 0
460			6.14. 4
1			1.14. 8
2			2.12. 0

£ 291. 8.10

57.11.11

Car No.                      Built.                      Repairs effected to 1915.                      Accrued at 31/12/15

Car No.	Built.	Repairs effected to 1915.	Accrued at 31/12/15	
	Forward	£ 291. 8. 10	157. 11. 11	
463			9. 17. 0	
4			10. 4. 4	
5		22. 18. 1	1. 14. 8	
6		22. 19. 4	12. 6. 8	
7		34. 0. 7	2. 3. 4	
8		30. 16. 6	3. 5. 6	
9		30. 6. 0	1. 19. 0	
470		27. 16. 6	3. 11. 8	
1	20 Dummies built in 1912.		1. 17. 8	
2			2. 12. 0	
3			2. 12. 0	
4			30. 15. 7	3. 3. 0
5			28. 9. 7	2. 19. 8
6			33. 2. 9	2. 7. 8
7			29. 12. 2	1. 19. 0
8				21. 1. 6
9			11. 10. 8	12. 3. 0
480				18. 6. 8
1		8. 11. 11	5. 14. 4	
2			1. 19. 0	
<u>50</u>		<u>631. 17. 3</u>	<u>279. 9. 7</u>	

Total                      £ 911. 6. 10

Average for 50 dummies £ 18. 4. 8 (excluding damages)

The average <sup>age</sup> of these 50 Dummies was, in 1915; over 8 years.

The above total represents the actual cost of repairing the Dummies for their whole lives up to 31st December 1915 including the "accrued" repairs to 31st December 1915..

24 of the 50 Dummies do not appear to have been allotted to any particular Station, being used as "spares".

The first 111 dummies built in 1885/7 Nos. 1 to 111 pages 16/18 Company's Exhibit A.1" were overhauled (excluding dummies) 623 times - an average of 5.52 times each - in the years 1898 to 1915 - 18 years. The dummies therefore came in for periodic overhaul about every three years.

The average cost of the tri-ennial repair of 160 dummies built in 1885/1890 (see Sheets Nos. 4 & ) was £38.8.2.

The cost of repairing (including "accrued" repairs) 50 dummies built 1906 to 1912 was £ 28. 4. 8 extending over an average of 8 years. Portion of the dummies were "spares".

If we assume that the 8 years' use of the latest 50 dummies is equivalent to about 3 years' use of the earliest dummies, it shows that the average annual repair of "aged" dummies costs over twice as much as the annual repair of newer dummies.

I can obtain no statistics to show whether 8 years car mileage or the later dummies is equivalent to 3 years car mileage of the earliest dummies.