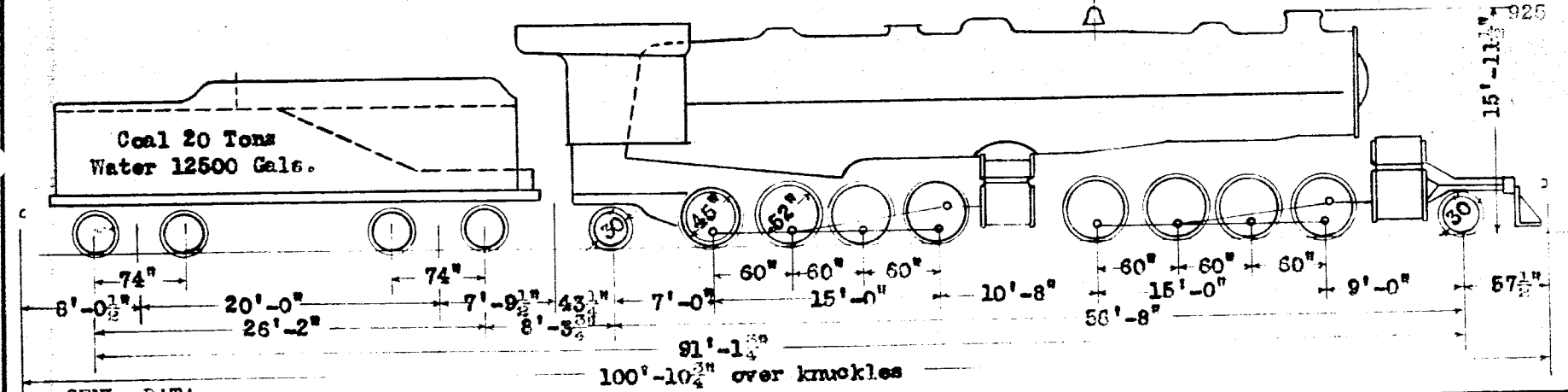


Engine No. 310  
Class 12 924  
925



GENL. DATA

|  |   |  |                                       |
|--|---|--|---------------------------------------|
| 1. Cylinders, dia. x stroke                          | 26" & 40" x 30"                           | 28. Tubes & Flues, length (in to in of tube sheet) | 286-7/8"                              |
| 2. Valve gear  | Walschaert                                | 29. Heating surface, tubes & flues                 | sq. ft. 5238                          |
| 3. Valves, size & kind                               | HP 14" Piston, LP 14" Piston, D. Ported   | 30. " " firebox & syphons                          | " " 530                               |
| 4. " max. travel                                     | 6 1/2"                                    | 31. " " total                                      | " " 5768                              |
| 5. " steam lap                                       | 15/16"                                    | 32. " " superheater                                | " " 1380                              |
| 6. " exhaust clearance                               | 1/4" clear                                | 33. " " equivalent total                           | " " 7838                              |
| 7. " lead in full gear                               | 3/16"                                     | 34. Grates, length x width                         | 150" x 96 1/2"                        |
| 8. " out-off in full gear                            | 89.6%                                     | 35. " area   | sq. ft. 100                           |
| 9. Rated tractive power                              | compound 105,600 lbs.<br>simple 126,700 " | 36. Brick arch, type                               | Security                              |
| 10. Ratio of Adhesion (wt. on Drivers ÷ Trac. Power) | 4.36                                      | 37. Arch tubes                                     | None                                  |
| 11. Sharpest curve                                   | 22 Deg.                                   | 38. Stoker, type                                   | Duplex D1                             |
| WEIGHT   |   | 39. Schedule                                       | W.A.B. 6-ET, BC, WZS, 1410, Type 21-E |
| 12. Leading truck                                    |   | 40. Brake power                                    | 50% 217,500 lbs.                      |
| 13. Drivers, first                                   | 57,800                                    | 41. Pumps  | 2 - 8 1/2" C.C.                       |
| 14. " second   | 59,100                                    | AXLES  |                                       |
| 15. " third  | 59,600                                    | 42. Leading truck                                  | Journal Dia. x Lgth. 6" x 12"         |
| 16. " fourth   | 54,800                                    | 43. Driving, main                                  | " " " 11" x 12"                       |
| 17. " total  | 459,900                                   | 44. Driving, other than main                       | " " " 9" x 12"                        |
| 18. Trailing truck                                   | 21,600                                    | 45. Trailing truck                                 | " " " 6" x 12"                        |
| 19. Total engine                                     | 450,800                                   | TENDER   |                                       |
| 20. Tender, front trk.                               | 43,900                                    | 46. Frame  | Structural                            |
| 21. " back "   | 36,500                                    | 47. Draft gear                                     | Minor A-69-XB                         |
| 22. " total  | 80,400                                    | 48. Brake schedule                                 | W.A.B. 6-ET, 1412, Type "L"           |
| 23. Total Eng. & Tender                              | 531,200                                   | 49. Brake power                                    | 85% 65,500 lbs.                       |
| BOILER   |   | 50. Truck, type                                    | Economy                               |
| 24. Working pressure, maximum                        | 220 lbs.                                  | 51. Axles  | A.R.A., 6" x 11"                      |
| 25. Firebox, length x width                          | 150" x 96 1/2"                            | 52. Wheels   | Steel 33"                             |
| 26. Tubes, No., O.D., & Gauge                        | 262-2 1/2"-11-B.W.G.                      | 53. Maximum width over cylinders                   | 11' 3 1/2"                            |
| 27. Flues, No., O.D., & Gauge                        | 45-5 1/2"-9-B.W.G.                        | 54. " " " running boards, at cab                   | 11' 4"                                |