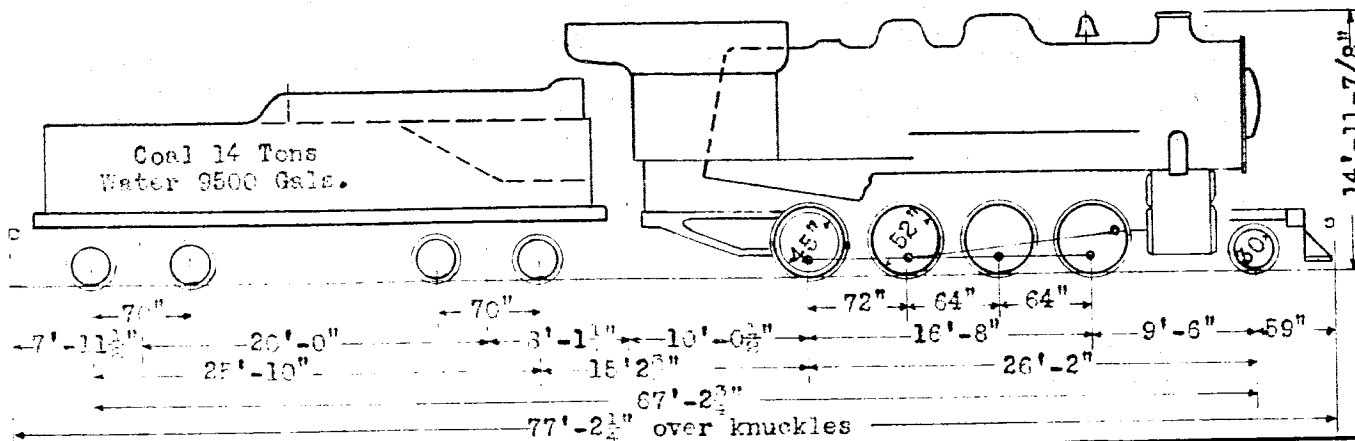


Engine 782 equipped with  
Cyclone spark arrester 9-21-31

Engines No. 770-783  
Class H8 785-789



GEN. DATA

1. Cylinders, dia. x stroke	25" x 30"	29. Heating surface, tubes & flues	sq.ft. 2919
2. Valve gear	Walschaert	30. " " firebox & arch tubes	" " 250
3. Valves, size & kind	14" Piston	31. " " total	" " 3169
4. " maximum travel	6 1/2"	32. " " superheater	" " 625
5. " steam lap	1"	33. " " Equivalent total	" " 4106
6. " exhaust clearance	line	34. Grates, length x width	110" x 80 1/2"
7. " lead in full gear	3/16"	35. " area	sq.ft. 61.3
8. " cut off in full gear	88.8%	36. Brick arch, type	Security 4-tube
9. Rated tractive power	61,298 lbs.	37. Arch tubes O.D., Ga., Fin. Lgth. over Bd.	3"-7-B.W.G.-117"
10. Ratio of Adhesion (Wt. on Drivers ÷ Trac. Power)	3.55	38. Stoker, type	None
11. Sharpest curve	22 Deg.	AIR BRAKE	
WEIGHT	Light	39. Schedule	W.A.B. 6ET, WNS, 1412, Type 42-B
12. Leading truck	27,000	40. Brake Power	68% 148,920 lbs.
13. Driver, first	52,000	41. Pumps	1 - 8 1/2" CC
14. " second	52,500	AXLES	
15. " third	57,400	42. Leading truck	Journal Dia. x Lgth. 6" x 12"
16. " fourth	55,600	43. Driving, main	" " " 11" x 12"
17. " total	217,500	44. Driving, other than main	" " " 9" x 12"
18. Trailing truck	None	45. Trailing truck	" " " None
19. Total engine	214,600	TENDER	
20. Tender, front truck	87,600	46. Frame	Structural steel
21. " back "	87,600	47. Draft gear	Parlow 3-key
22. " total	68,000	48. Brake schedule	W.A.B. 6-ET, 1412, Type "L"
23. Total engine & tender	282,600	49. Brake power	91% 61,600 lbs.
BOILER		50. Truck, type	Arch bar
24. Working pressure, maximum	200 lbs.	51. Axles	A.R.A. 6" x 11"
25. Firebox, length x width	110" x 80 1/2"	52. Wheels	Steel 33"
26. Tubes, No., O.D., & Gauge	239-2 1/2"-11-B.W.G.	53. Maximum width over cylinders	10' 3"
27. Flues, No., O.D., & Gauge	36-5 1/2"-9-B.W.G.	54. " " running boards, at cab	10' 3"
28. Tubes & Flues, length (in to in of tube sheets)	181-7/8"		