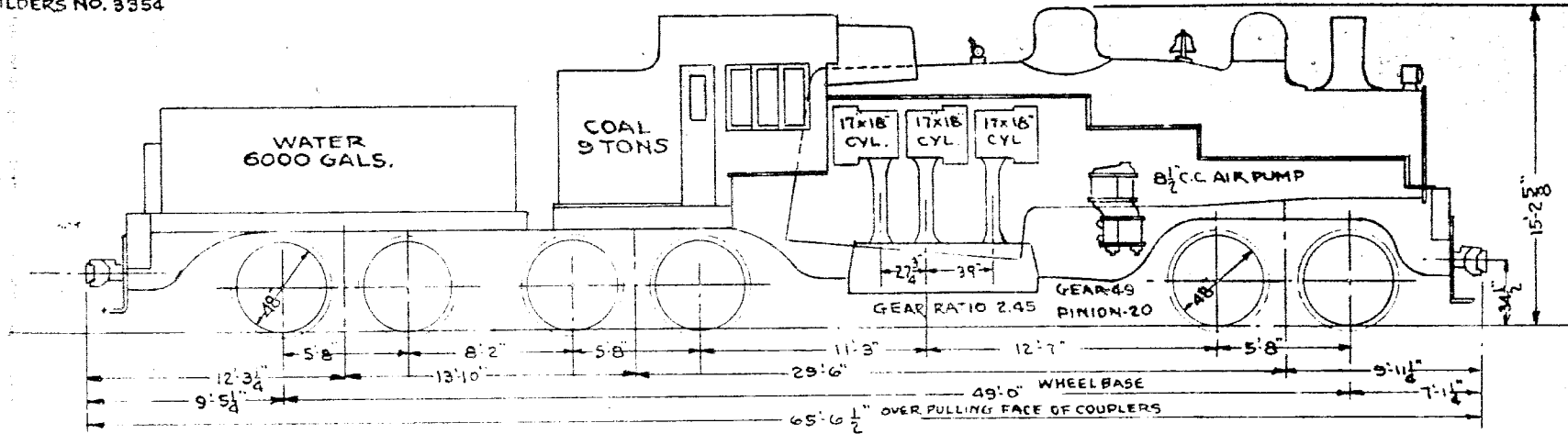


BUILT L.L.W. MAY, 1945
ORDER NO. 510
BUILDERS NO. 3354

Shay Engine No. 6



1. Cylinders, No., Dia., & Stroke	3 - 17" x 18"	29. Brick arch, type	Security
2. Valve Gear	Stephenson	30. Arch tubes, No., O.D., Gauge	3 - 3", #7-BWG
3. Valves, size and kind	9" Piston	31. Stoker	None
4. " maximum travel	4-3/4"	32. Frame	Riveted Structural Steel
5. " steam lap	1"	AIR BRAKE	
6. " exhaust clearance	Line in Line	33. Schedule	Westinghouse 6-BT
7. " lead in full gear	1/16"	34. Brake Power (3 - 14" x 12" "L" Cyls.)	173,400 lbs. 53%
8. " cut-off in full gear		35. Pump	1 - 6 1/2" CC
9. Rated tractive power	59700 lbs.	TRUCKS	
10. Ratio of adhesion (Wt. on drivers ÷ tractive power)	5.43	36. Journals dia. x length	8 1/2" x 10"
11. Sharpest curve	22 deg. 30'	37. Wheels	Steel Tired
WEIGHT		38. Tires	5 1/2" x 7"
12. " working order #1 truck	87,280	39. Type wheel center	Cast Steel
13. " " " #2 "	103,760	TENDER	
14. " " " #3 "	132,960	40. Frame	Riveted Structural Steel
15. " " " total engine & tender	324,000	41. Draft Gear	Minor A-22-XB
BOILER		42. Power Reverse Gear	Alco Type "G"
16. Working pressure, maximum	200 lbs.	43. Dynamo	Pyle National X-240
17. Firebox, length x width	114" x 61-1/4"	MAXIMUM DIMENSIONS	
18. Tubes, No., O.D., and Gauge	156 - 2" #12-BWG	44. Top of rail to highest point (Steam Dome)	15' 2-5/8"
19. Flues, No., O.D., and Gauge	28 - 5-3/8" #9-BWG	45. Running Board at Cab to center line of loco.	6' 6-5/8"
20. Tubes, Length (in to in of tube sheets)	162"	46. Width from center line of loco. over union link	5' 8-3/8"
21. Heating surfaces, tubes and flues	sq.ft. 1623	47. Width from center line of loco. over ash pan dumper lever	5' 8"
22. " " firebox & arch tubes	" " 226	48. Maximum Grade	10%
23. " " syphons - ONE	None		
24. " " total	" " 1849		
25. " " superheater (Type "A")	" " 429		
26. " " equivalent total	" " 2278		
27. Grates, length and width	114 x 61-1/4"		
28. " area	sq.ft. 48.5		