

2-8-8-2

its most powerful locomotives. Although to history, their haulage Mountains of West are legendary.

The N&W's main line was 663 miles long, stretching from Norfolk, Virginia, to Columbus, Ga. It was on the climbs, over the dramatic 66 gradients of the Allegheny mountain range, on the numerous colliery branches in the deep Appalachian valleys, that the 2-8-8-2 Mallet articulated compounds reigned for 40 years.

Continuous development

In 1918, the N&W built its prototype 2-8-8-2 compound, classified Y2, at its Roanoke shops. It was an enlargement of the 1910 freight locomotive, the 2-8-6-2, derived from a successful Z1 class 2-8-6-2s, derived from a Chesapeake & Ohio Railroad (C&O) upendesign.

By the end of 1924, the N&W had a fleet of 11 Class Y2 and Y3 2-8-8-2s, built by three main workshops at Roanoke as well as by private builders, the Y3 being the United States Railway Administration (USRA) derivative of the N&W Y2. A further 10 of these locomotives, Class Y4, were added in 1927. These were given bolster side frames and cross tie units gave greater length.

The N&W Mallets were provided with a main valve, enabling them to operate as four-cylinder simple expansion locomotives. As such,

The Y6Bs were of the Mallet type, pioneered by the Swiss-born engineer of that name. The LP cylinders and driving wheels were mounted in a separate frame hinged from the main frame. This feature enabled large and powerful locomotives to have greater flexibility in negotiating curved tracks, of which the N&W had many.



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In August 1942, 1946-48 2172 was one of the last of the class, at Roanoke, VA. The Mallet compound of roller wheels and roller bearings was a feature of the design. In 1942, the engine was in the US, in the hands of the N&W, the compound Mallet to achieve a higher production in the US. The roller wheels were freight train type, but they were not roller wheels.

An engineer's sight

In 1942, just after his appointment as General Manager of Motive Power and Equipment, Clarence Ford, who later had to carry out a reorganization programme, said to a friend, writing Roanoke as a Mallet noted: "What you hear that engine's exhaust crack, with the rearward motion up right, you wonder what anyone would want to do it for. With the N&W's modern steam power and maintenance facilities contributing to the highest productivity and freight train production any comparable US railroad, his location is not hard to understand."

ing, the exhaust from the high pressure (HP) cylinders was taken directly to the blastpipe, instead of to the low pressure (LP) cylinders as normal. This eliminated back pressure on the HP pistons at starting and meant an increase in tractive effort.

During 1930-32, Roanoke built 30 Class Y5 engines. In these, the boiler pressure was increased from 240 to 300lb - a high figure for that time. By enlarging the firebox, the grate area was enlarged from 240 to 106sq ft. This increased the firebox heating surface and evaporative capacity of the locomotive. By enlarging the LP piston valves from 14 to 18in diameter and providing large bridge exhaust pipes from the LP cylinders to give free exhaust, the steam flow was improved for higher power output at speed.

The Y5s set the basic pattern for the classic Y6 series, of which 15 were produced during 1936-40. This class had the added refinement of cast-steel frame beds with integral cylinders, roller bearings on all axles and a modified valve setting to

increase power. In 1942, N&W once again modified the design and 16 Y6s engines incorporated an improved type of mechanical stoker (an essential feature on locomotives burning up to 4 or 7 tons of coal per hour) and plain instead of roller bearings for the tender axles.

Last of the line

In 1948, just as the big three commercial US locomotive builders, Alco, Lima and Baldwin, were fulfilling their final domestic steam orders, Roanoke embarked on the construction of a further series of compound 2-8-8-2s. Ultimately, 30 were built, classified Y6b, and numbered 2171 to 2200.

Compared to the earlier Y6 engines, refinements included increased firebox heating surface and volume, the combustion chamber being extended by 4in and the tube length correspondingly reduced. This resulted in better fuel combustion and increased evaporation. The blastpipe ori-

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Ultimately, 30 Y6b and numbered 2171 to 2200. The time they were all modified applied to all Y5, Y6 and Y7 were almost Y6b engine.



Railroad Encyclopedia

Colin Garratt



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Encyclopedia of the Underground Railroad J. Blaine Hudson, 2006-03-03 Fugitive slaves were reported in the American colonies as early as the 1640s and escapes escalated with the growth of slavery over the next two hundred years As the number of fugitives rose the Southern states pressed for harsher legislation that they thought would prevent escapes The Fugitive Slave Act of 1850 criminalized any assistance active or passive to a runaway slave yet it only encouraged the behavior it sought to prevent Friends of the fugitive whose previous assistance to runaways had been somewhat haphazard increased their efforts at organization By the onset of the Civil War in 1861 the Underground Railroad included members defined stops set escape routes and a code language From the abolitionist movement to the Zionville Baptist Missionary Church this encyclopedia focuses on the people ideas events and places associated with the interrelated histories of fugitive slaves the African American struggle for equality and the American antislavery movement Information is drawn from primary sources such as public records document collections slave autobiographies and antebellum newspapers Entries contain pointers to related entries and suggestions for

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through vintage photographs and other images *The Encyclopedia of Trains & Locomotives* C. J. Riley, 2000 Development of the modern world Book jacket Trains and Technology: Cars Anthony J. Bianculli, 2001 Volume 2 of Trains and Technology is devoted to railroad cars of nineteenth century America Since the variety of cars used during the nineteenth century was huge the book is divided into three sections passenger freight and non revenue cars The easily understood jargon free discussions and explanations throughout the book are accompanied by over 225 illustrations and accurate scale drawings of the various equipment *The Ultimate Encyclopedia of Steam & Rail* Colin Garratt, 1998 Since the birth of the railroads in the early Industrial Age people across the world have been fascinated by the locomotive as a powerful symbol of advanced technology and an exciting means of transport From the early beginnings of steam power to today s high speed passenger trains this book spans nearly two centuries of locomotive and railway development *National Ownership of Railways* Charles Henry Vail, 1897 **Encyclopedia of Railroads** Oswald Stevens Nock, 1977 The Conservative Julius Sterling Morton, 1898

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melting point can be used as the identity and purity of an organic solid however it is not the same as the boiling point the boiling point is a characteristic unique of pure liquids the boiling point is the temperature at which the vapor pressure of a liquid is equal to the atmospheric pressure

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aug 11 2020 boiling points are very sensitive to changes in applied pressure so all boiling points should be reported with the

measured pressure a compound's normal boiling point refers to its boiling point at a pressure of 760 mm Hg

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the purpose of the experiment is to understand what vapour pressure is and how it changes with temperature to understand the relationship between vapour pressure at a given temperature and boiling temperature at a given pressure to determine the vapour pressure of a pure liquid at various temperatures

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exploring boiling points abstract in this experiment we are given a set of straight chain alkanes and a set of compounds to compare by following the trendline of the straight chain alkanes it could be concluded that as the molar mass of the straight chain alkanes increases their boiling points increase as well

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laboratory partners samantha and mackenzie goals ☐ correctly determine the boiling point of an unknown liquid ☐ measure the refractive index of an unknown ☐ use the gas chromatogram to determine the mass percentage of a mixture and

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50 °C so in order to convert an experimental measurement taken in Calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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introduction in chemistry one may encounter an unknown substance that needs to be determined by physical properties such as boiling point melting point density solubility etc in this experiment i aim to figure out the boiling point of a mystery substance in order to identify it chemical responsibility this experiment requires the handling of a bunsen burner boiling

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there are a variety of methods by which a sample's boiling point can be determined including distillation reflux and by using a thiele tube the most straightforward method uses a thiele tube and has the advantage of using less than 0.5 ml of material

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