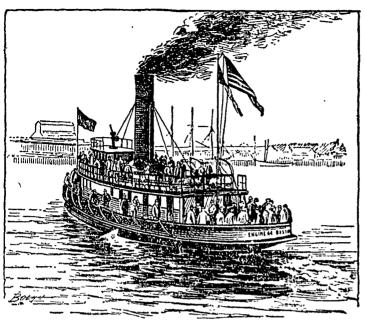
## **ENGINE 44 A WONDER.**

Boston Daily Globe (1872-1922); Jul 21, 1895; ProQuest Historical Newspapers Boston Globe (1872 - 1927)

## p<u>g. 3</u> ENGINE 44 WONDER.



NEW FIRE BOAT BOSTON.

Fire boat 44, the latest addition to the Fire boat 44, the latest addition to the Boston thre department, companion to engine 31, ran the gauntlet of official inspection and official criticism yes-terday. In other words, she was put to the severest sort of a trial at the hands of Capt Healy, her new commander, and under the critical scru-tiny of commissioner Russell and ex commissioners Fitch and Innes, to-gether with Capt William Brophy and a score of other fire department ex-perts. perts.

The trial was made by invitation of John M. Brooks, the builder of the boat, and it is simple justice to him to say that from start to finish it was a perfect success.

That from start to missi it was a per-fect success. Ten was the hour appointed for the start, but it was a quarter of an hour later before she left her moorings at East Boston and made across the hat-bor to India wharf to pick up such of her guests as had not already got on board for the initial trip. Weather, wind and water were all that could be desired, and the predic-tion of the builders concerning the speed, pumps ind engines of Boston's newest fire-fighting machine were ful-filled to the letter. Two trips were made, the first, which gave a thorough and satisfactory test of her speed and the working of her engines, lasting from 10.15 until 2, and the latter, which was by far the more complete, from 2.10 until 6 30.

complete, from 2.10 until 6 30. To sum up the particulars of the day's work it may be said that the boat de-veloped a speed which was estimated to be 13', hrors an hour, and her pumps discharged 6000 gallons a minute through 314 and 314-inco nozzles. They were very powerful streams. Another point of special importance noted by the ex-pert, who made a record of the trial mail its details, was that the propelling engines ran with the utmost smooth-news, and that the vibration, even when put to the soverest test, was very slight. It will take a day or two for Mr Brackett, experimental engineer in the city engineer's department, who, by in-the oontractor, made the tests, but, in a general way, it can be authoritatively stated that the new fire boat meets all requirements, is satisfactory to the fire commissioner as well as to the con-tractor, and will therefore go into com-mission at short notice, possibly within a fortnight.

The hull of the boat is of wood, length 110 feet overall, breadth of beam 26 feet over plank, depth of hold from top of

celling to top of deck beam, on frame 3, 10 feet, duaft eight feet six inches. The keel is of white oak, and the plank-ing is also white oak, three inches thick at gunwale. The filling between the frames for protection against ice ex-tends from 30 inches below load water-line to 15 inches above. The engines are of vertical inverted cylinder, direct acting compound type. The engines are of vertical inverted cylinder, direct acting compound type. The high pressure cylinder is 18 inches diameter, low pressure 36 inches diam-eter and 24 inches stroke, and both are proportioned for a plston speed of 540 feet per minute. There are two boliers, built for a working pressure of 120 pounds per square inch; two vertical fly-wheel du-plex if pumps, double acting, with steam cast fron cylinders of the com-pound type. The towers are made of composition throughout, and each is operated by handwheels, giving a universal move-ment. The two forward towers are provided with four-inch smooth nozz-zies, and the one on the pilot house with a three-inch smooth nozz-ies. The high pressure cylinder of the pumps must stand a working pressure of 120 pounds per square inch, the low pressure cylinders 60 pounds and the pump cylinders 60 pounds and the pump suit as a pump pressure of 55 pounds and a pump pressure of 55 pounds and a pump pressure of 56 pounds and a pump pressure of 57 pounds, under these conditions each pump must discharge at least 2000 gal-tions per minute, and be capable of de-livering 25 tons of water per minute at an elevation of 250 feet. This is precisely the test to which the pump were put vesterday, and it was estimated that they met the require-ment to the letter.

When the boat left India wharf for the morning trip the course marked out and followed was straight down the har-bor, past the lower middle, through the main ship channel, past Bug light and clear out to sea as far as the lightship around the lightship and back at full speed, 13½ knots, past Boston light, sighting Minots, into Presidents roads, along the East Boston shore, around by the navy yard, insally tying up once more at India wharf to receive the other distinguished guests, notably the new fire commissioner, Coi Russell: Al-dermen Flood and Lee and Pres O'Brien of the common council. No sooner had engine 44 swung out from her moorings in Fast Boston, at

of the common council. No sooner had engine 44 swung out from her moorings in East Boston, at the very beginning of her cruise, than she was saluted by a score of tugs, steam vachts and other cruft, and so it was, all day until it seemed as though everything in Boston harbor having a

steam whistle, from the smallest tug to the ocean greyhound, voiced a clarion-throated welcome to the new arrival. Loudest and most piercing of all was the fre boat (iself, whose big steam syren and companion whistle kept up an incessant "alarum" in response to each and every salutation.

This fact alone, though unquestiona-bly necessitated and altogether proper on the score of l courtesy, wis an exceedingly dis. ... 'e, and to .. the gree a positively paint if frature < t the day's sail, giving all has an e. . ache and forcing a shudder ut every saluta-tion.

gree a positively paint if frature < t the day's sail, giving all han an et. a. ache and forcing a shudder at every saluta-tion. The only excitable incident - any de-scription on board the fire boat occurred on the trip down the harbor in the fore-neon, and though it was soon over, and really amounted to very litle, that attle was sufficient to send a thrill of appre-hension through the entire company. It so happened that just after passing Bug light one of the turnbuckles of the steering gear on the pilot side worked teres, and for a few moments the boat was beyond control. The fron tiller was promptly brought out, but it failed to work satisfactorily, and the boat itself came within an ace of running her nose straight in a diventions for Bug light. It took just five minutes to discover the new foundations for Bug light. It took just five minutes to discover the fault in the machnery and remedy it, and once more the engines were un-der way, and the boat swung out through to shifp channel, with head pointed for the lightshift, five or six miles farther on to sea. Her speed, which up to the time op reaching Bug light had been rather n oderate, was graduelly increased, no that by the time she pansed the light-slip he was making fully 10 knots, and tessing the water off her sides like an ocean greyhound. The return trip was made without in-cident of any description, aside from the sclutions of passing sides and the fact that the fire boat was put to her highest speed.

Schlaftions of parsing signs and the fact that the fire boat was put to her highest speed.
Bo it was in regard to the afternoon trip, so far as the sail tiself was concerned; but the trial of the pumps from a until fact the wharf of the Vigilant on Galloupes island was a variation, and went far to show the genuine fighting of Galoupes island was a variation. And the action of the secret of the trial of the pumps from a little of Boston's new boat.
It was nearly 7 when engine 44 tisd up for the last time alongsido her elder slater, engine 31, at India wharf, having satisfied her most exacting critics on the secre of her fire fighting and speed qualifications, and having added fresh laurels to those already worn by her designer and builders.
Among the gentlemen on board the new boat, who witnessed her malden fort, were: Fire Commissioners Fitch and Innis, Chief Weiher, Aldeimen Lee, Flood, Witt and Bryant, Fres Cilrien of the common council, Capt L. E. Jenkins of East Boston, ex captain of the fire department, George Warren; Capt William Brophy, Chief Hopkins of Somerhill, ex superintendent Geo. Willis of Pittsburg, Councilmen M. Carthy and Roche and G. W. Smith, ex Alderman Wooley, superintendent Mortis W. Meade of Pittsburg, Councilmen M. Carthy and Roche and G. W. Smith, ex Alderman Wooley, superintendent George for the the contractor and builder and Assistant City Messenger Obborke, together with the contractor soft he heat, also Miss Hunt as phesis of the heat, also Miss Hunt as phesis of the appropriation.

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