

REPORT of SURVEY for REPAIRS, &c.

in Book. No. 11528 Survey held at Sunderland Date, first Survey 27th Sept Last Survey 1st Nov 1876
 371 on the Iron Steamer Libra Master C. Baker

TONNAGE under Tonnage Deck 831
 Ditto of Spar Deck, or Avoning Deck
 Ditto of Poop
 Ditto of Raised Qr. Dk.
 Ditto of Houses on Deck
 Ditto of Forecastle
 Gross Tonnage 1030
 Crew Space, as per Rule
 Register Tonnage, cut on Beam
 Engine Room
 Reg. Tons as St^rmer, cut on Bm. 617
 Built at Dumlee When built 1869 (7/6)
 Owners Mr. Steam Nav. Co. Port belonging to London
 Residence 71 Lombard St London.
 By whom built Courlay. Destined Voyage
 If Surveyed Afloat or in Dry Dock In Dry Dock and Afloat.
 Length of Poop ft. Ditto, Forecastle ft. Ditto, Raised Quarter Deck ft.
 Last Survey, No. 16288 Port Dumlee Iron Classified A 1
 REPAIRS, on EXAMINATION AS PER RULE (Set. Nov. 2nd 1876) 3/76

The following repairs have been effected by the North Eastern Marine Engine Company, in consequence of the vessel having laid her boilers and frame general decay:- The vessel placed in a dry dock, and the keel and bottom examined. Several bolts of the shell plating re-caulked. Lifted the rudder. fitted one new brace and re-riveted all the others and the rudder stops. repaired the rudder plating. Thoroughly overhauled and put the steering gear in good working order. Renewed three plates on the starboard side and one on the port side forming the bilge keelsons, and several other of the plates, which had been buckled, now made fair. Removed one of the shell-plates from the side of the vessel, under the port after gangway, which had been bulged, reset the same to shape and refitted and riveted it. Renewed a few rivets in the shell-plating. Fitted three new plates

Present Condition of the
 Decks Good
 Waterways
 Comings
 Upper Deck Beams & Fastenings
 Lower Deck Beams & Fastenings
 Plating
 Sheerstrakes
 Topsides
 Wales
 Plank (Bottom) and Counter
 Engine Room Skylights
 Coal Bunker, Openings, Lids, &c.
 General Observations, Opinion as to Class, &c.
 Greenails
 Breasthooks and Stemson
 Transoms, Pointers, and Crutches
 Timbers of the Frame at the openings
 Ditto Ditto at other places
 Keelsons
 Clamps and Shelves
 Ceiling
 Rudder
 Copper
 Caulking of
 Bottom, Deck, & Waterways
 Windlass and Capstan
 Pumps
 Boats
 Masts, Yards, &c.
 Condition, how ascertained
 Sails
 Anchors
 Cables
 Hawser and Warps
 Standing & Running Rigging
 Cargo and Main Hatchways
 Hatches

She is now in good and efficient condition, and fit, in our opinion, for the safe conveyance of dry and perishable cargoes to and from all parts of the world, and to remain classed A 1, please see Engineer Surveyor's report on the Machinery.

The Amount of Entry Fee ... £ 3 : 0 : 0 received by me, }
 Special ... £ 8 : 8 : 0 187 }
 Certificate (if required) ... £ 0 : 5 : 0
 (Travelling Expenses, if any, & change made)
 Committee's Minute 17th November 1876
 Character assigned A 1
 See S.S. London report
 17/11/76
 Lloyd's Register
 18/11/76

Cause of repairs to be clearly stated.

[The Surveyors are requested not to write on or below the space for Committee's Minute.]

Surveyor to Lloyd's Register of British and Foreign Shipping.

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17372 Iron.

plates of iron-deck, in place of those found to have been much waste.
Renewed several shades of upper deck on each side of machinery
amidships with Pitch. Pine. Caulked the whole of the ~~the~~ ^{either} decks.
Overhauled and refitted the rails and deck fittings, and renewed a
portion of the hurricane deck. - Removed the transverse iron bulk-
head at the fore end of machinery space. three frames further aft, and
efficiently fitted and secured the same between double frames riveted
to shell-plating. Replaced and secured the beams in the boiler space
after the boilers had been got in place. - Fitted a small quantity
of railing in the fore hold also a ~~new~~ portion of the lower-deck plating,
rendered necessary by the removal of the bulkhead.

The boiler-space and the coal bunkers were examined
by Mr. Besant after the removal of the old boilers, and the various
parts had been beaten and chipped clean; when he found the keelson
frames, reverse-frames, floors, stringers and plating in good condition,
and the cement in the bottom good and adhering satisfactorily to
the iron-plating, frames, and floors.

The bottom coated with Coal-tar, the topsides and inside
of Machinery Space with paint. -

William Lloyd.

Commander



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