

17475 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 21/12/46

Description Compound Inverted Direct Acting Are all the bilge suction pipes fitted with roses Yes
 Made by The London & Glasgow Engineering & Shipbuilding Coy No. of feed pumps Two and sizes 4" dia.
 When 1846 At Glasgow What gauges are there attached to the engines and boilers... Three Steam, One Vacuum
 Diameter of cylinder 36 x 66 Length of stroke 3.6 One Compound
 No. of revolutions per minute Not Ascertained Description and size of Donkey Pump... Double acting 5" x 10" Stroke
 Point of cut off Variable Where do they pump from From the sea, bilge, Hotwell & Ballast Tanks
 Diameter of screw shaft 11" No. of bilge injections One and sizes 4 3/4"
 Diameter of crank shaft journals 11" Are they connected to air, or circulating pumps Circulating
 Diameter of screw, over diameter of screw 16" 6 Is there a hand pump in the engine room Yes
 Pitch of screw 19.0 Can it be worked by the main engines Yes
 No. of blades, 4 Total surface Not Ascertained Is there a deck hose of sufficient length to reach to any part of the vessel Yes
 No. of bilge pumps Two and sizes 5" dia x 21" Stroke
 Do they pump from each compartment Yes

MAIN BOILERS.

Number Two Description Round Horizontal Can the super-heater be shut off and the boilers worked separately No
 Made by The London & Glasgow Coy Description and area of safety valves on each boiler Two Direct Spring each 15.9 area
 When 1846 At Glasgow No. of square feet of fire-grate surface in each boiler 60 sq ft
 Working pressure 65 lbs Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin Yes
 Tested by hydraulic pressure to 130 lbs Date Aug 22 1846 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times... Yes
 Description of super-heating apparatus Round Horizontal Receiver enclosed in smokebox
 Can each boiler be worked separately Yes

DONKEY BOILER.

Description Round Vertical Tested by hydraulic pressure to 100 lbs, Date Aug 1/46
 Where fixed In stokehold at middle line Description and area of safety valves Direct loaded 8.295
 Working pressure 50 lbs No. of square feet of fire grate 16 sq ft

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship Yes What pipes are carried through the bunkers Bilge pipes to forehold
 Are they Kingston valves or common cocks... Screw down valves & cocks How are they protected By strong wood casing
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates... Yes they are fitted on top of the bilge When were the stern tube, propeller, screw shaft, and all connections examined in dry dock Dec 11th 1846
 Are the discharge pipes above or below the deep water line Under Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge Yes
 Are they each fitted with a discharge valve on the plating of the vessel Yes Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead Yes

Made by Rosher London & Glasgow Engineering & Shipbuilding Coy Limited Manufacturer.
W. Kelly

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Madnorshire" owned by J. L. Jenkins
 of the Port of London of 1201 Tons Register, and 250 Registered Horse Power,
 and that they have been carefully inspected and examined by me at Glasgow
 and found to be at this date, viz., Dec 19th 1846 in good order and safe working condition.

Amount of Fee for Survey £ 5 : - : Ja
 (Travelling Expenses, if any, £)

James Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.