

S. S. "Hungarian"

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Report (if any) on Hull of Vessel, Port of Glasgow No. 1013

Description Compound, Inverted direct-acting Are all the bilge suction pipes fitted with roses Yes
 Made by Blackwood & Gordon No. of feed pumps Two and sizes 4" dia. x 18" stroke
 When 18 49 At Port Glasgow
 Diameter of cylinder 34 1/2" Length of stroke 36"
 No. of revolutions per minute 40
 Point of cut off Variable
 Diameter of screw shaft 10 1/8"
 Diameter of crank shaft journals 10 1/8"
 Diameter of screw, or of paddle wheel 14 1/2"
 Pitch of screw 14 1/2" mean
 No. of blades Four Total surface 48 sq. feet
 No. of bilge pumps Two and sizes 4" dia. x 18" stroke
 Do they pump from each compartment Yes

What gauges are there attached to the engines and boilers ... One steam, one vacuum, one compound in E. Room, one steam in stokehold.
 Description and size of Donkey Pumps ... One double-acting 4" x 8" One double-acting horizontal 8" x 9"
 Where do they pump from ... Sea, bilges & stokehold Ballast tanks etc.
 No. of bilge injections One and sizes 3 1/2"
 Are they connected to air, or circulating pumps Circulating
 Is there a hand pump in the engine room Yes
 Can it be worked by the main engines No
 Is there a deck hose of sufficient length to reach to any part of the vessel Yes

MAIN BOILERS.

Number One Description Round, horizontal Can the super-heater be shut off and the boilers worked separately No
 Made by Blackwood & Gordon
 When 18 49 At Port Glasgow
 Working pressure 45 lbs
 Tested by hydraulic pressure to 150 lbs., Date 3. 3. 49
 Description of super-heating apparatus Large steam receiver, part in uptake
 Can each boiler be worked separately Yes

Description and area of safety valves on each boiler Two direct spring 4 1/2" mean
 No. of square feet of fire-grate surface in each boiler 100 sq. ft.
 Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin Yes
 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. Yes

DONKEY BOILER.

Description Round, vertical, four cross tubes Tested by hydraulic pressure to 100 lbs, Date 3. 3. 49
 Where fixed In stokehold
 Working pressure 50 lbs
 Description and area of safety valves One direct spring 7" area
 No. of square feet of fire grate 12.5 sq. feet.

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship Yes
 Are they Kingston valves or common cocks ... Screw down valves heads
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... Yes, on top of bilge just above
 Are the discharge pipes above or below the deep water line Yes
 Are they each fitted with a discharge valve on the plating of the vessel Yes
 What pipes are carried through the bunkers None
 How are they protected None
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock New ship, before being launched
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge Yes
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead Water tight door

pro Blackwood & Gordon Manufacturers
S. B. M. G. Co.

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 "Hungarian" owned by Burrell & Sons of the Port of Glasgow of 98 1/4 Tons Register, and 160 Registered Horse Power, and that they have been carefully inspected and examined by me at Port Glasgow and found to be at this date, viz., 18th April 18 49 in good order and safe working condition.

Amount of Fee for Survey ... £ 8 : - : -
 (Travelling Expenses, if any, £)

Alfred G. Alchin
 Engineer Surveyor to Lloyd's Register of Shipping,
 Clyde District

The Engines and Boilers of this
vessel have been built in accordance
with the rules, submitted that she
is eligible to have Lloyd's N.C.
and a Machinery Certificate from
18 April 79

M 24. 4. 79

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