

REPORT ON MACHINERY.

No. 6295 Received at London Office 30710/1883
 No. in Survey held at Glasgow Date, first Survey May 1. 82 Last Survey Oct. 27. 1883
 Reg. Book. _____ (Number of Vols. _____) 3613.35
 on the Steamer "Moravia" Tons 2147.00
 Master Oscar Peroldt Built at Glasgow By whom built Messrs. A. & V. Inglis When built 1883
 Engines made at Glasgow By whom made do when made 1883
 Boilers made at do By whom made do when made 1883
 Registered Horse Power 310 Owners Hamburg Amerikanische Packfahrt Actiengesellschaft Port belonging to Hamburg

ENGINES, &c.—

Description of Engines Compound Inverted surface Condensing
 Diameter of Cylinders 40" & 44" Length of Stroke 54" No. of Rev. per minute 65 Point of Cut off, High Pressure 1/2" Low Pressure 1/2"
 Diameter of Screw shaft 14" Diam. of Tunnel shaft 1 3/2" Diam. of Crank shaft journals 1 1/4" Diam. of Crank pin 1 3/4" size of Crank webs 16 3/4" x 9 3/4"
 Diameter of screw 18" 0' Pitch of screw 20" 6' No. of blades 4 state whether moveable Yes total surface 44 sq feet
 No. of Feed pumps Two diameter of ditto 5" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps Two diameter of ditto 5" Stroke 24" Can one be overhauled while the other is at work Yes
 Where do they pump from Decks of Engine Room and all Compartments
 No. of Donkey Engines Two Size of Pumps 5' x 10" & 10" x 10" Where do they pump from Sea Tanks, Boilers, Decks of Engine Room & all Compartments. Hotwell & through Condenser
 Are all the bilge suction pipes fitted with roses Yes Are the roses always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes
 No. of bilge injections One and sizes 5" Are they connected to condenser, or to circulating pumps Circulating pumps
 How are the pumps worked By Levers attached to Crankshafts
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the discharge pipes above or below the deep water line above
 Are they each fitted with a discharge valve always accessible on the plating of the vessel Yes Are the blow off cocks fitted with a spigot and brass covering plate Yes
 What pipes are carried through the bunkers None How are they protected —
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock Before launching
 Is the screw shaft tunnel watertight Yes and fitted with a sluice door Yes worked from Cop. Platform

BOILERS, &c.—

Number of Boilers Two Description Cylindrical & Multitubular Whether Steel or Iron Steel
 Working Pressure 85 lbs Tested by hydraulic pressure to 140 lbs Date of test May 2nd 1883
 Description of superheating apparatus or steam chest None
 Can each boiler be worked separately Yes Can the superheater be shut off and the boiler worked separately —
 No. of square feet of fire grate surface in each boiler 115 sq ft Description of safety valves Direct spring No. to each boiler Two
 Area of each valve 20.8 in Are they fitted with easing gear Yes No. of safety valves to superheater — area of each valve —
 Are they fitted with easing gear — Smallest distance between boilers and bunkers or woodwork 12 inches Diameter of boilers 14' 6"
 Length of boilers 18' 6" description of riveting of shell long. seams Triple wire lap circum. seams Double wire lap Thickness of shell plates 3/8"
 Diameter of rivet holes 1 3/8" whether punched or drilled drilled pitch of rivets 5 1/2" Lap of plating 9 5/8"
 Percentage of strength of longitudinal joint 45% working pressure of shell by rules 90 lbs size of manholes in shell 16" x 12"
 Size of compensating rings Angle Iron 3 1/2" x 3 1/2" x 3/4" No. of Furnaces in each boiler 6
 Outside diameter 46" length, top 6' 3" bottom 8' 9" thickness of plates 3/16" description of joint Riveted if rings are fitted —
 Greatest length between rings — working pressure of furnace by the rules 108 combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
 Pitch of stays to ditto, sides 9' x 9' back 9' x 9' top 9' x 9' If stays are fitted with nuts or riveted heads Nuts working pressure of plating by rules 95
 Diameter of stays at smallest part 1 1/2" working pressure of ditto by rules 130 end plates in steam space, thickness 1 3/16"
 Pitch of stays to ditto 15 3/4" x 15" how stays are secured Nuts & Washers working pressure by rules 95 lbs diameter of stays at smallest part 2 1/4" working pressure by rules 100 lbs Front plates at bottom, thickness 1 3/16" Back plates, thickness —
 Greatest pitch of stays — working pressure by rules — Diameter of tubes 3 3/4" pitch of tubes 4 1/2" x 4 1/2" thickness of tube plates, front 3/4" back 1 1/16" how stayed Tubes pitch of stays 13 1/2" x 13 1/2" width of water spaces 4'
 Diameter of Superheater or Steam chest None length — thickness of plates — description of longitudinal joint — diam. of rivet holes —
 Pitch of rivets — working pressure of shell by rules — diameter of flue — thickness of plates — If stiffened with rings —
 Distance between rings — working pressure by rules — end plates of superheater, or steam chest; thickness — how stayed —
 Superheater or steam chest; how connected to boiler —

Form No. 225 (83) Report is also sent to the Hull of the Ship

GLS148-0290



6295 gen

DONKEY BOILER—

Description

Cylindrical & multitubular (Steel)

Made at Glasgow

by whom made Messrs A. & J. Inglis

when made 1883

where fixed Stockholm

Working pressure 85 tested by hydraulic pressure to 140 lb. No. of Certificate 996 fire grate area 22 sq feet description of safety

valves Direct Spring No. of safety valves Two area of each 70 sq in if fitted with easing gear Yes if steam from main boilers can

enter the donkey boiler No diameter of donkey boiler 9' 0" length 8' 0" description of riveting Longitudinal Cis Rivet

Thickness of shell plates 5/8" diameter of rivet holes 1" whether punched or drilled drilled pitch of rivets 4" lap of plating 4"

per centage of strength of joint 45% thickness of end plates 3/4" stayed by Stay 2 1/16" dia pitched 15" x 15"

Diameter of furnace top 2' 10" bottom 9 length of furnace 5' 6" thickness of plates 1/2" description of joint Double butt

Thickness of furnace crown plates 1/2" stayed by 1 3/8" stays pitched 8 1/2" x 8 1/2" working pressure of shell by rules 98 lb

Working pressure of furnace by rules 118 lb diameter of uptake in thickness of plates in thickness of water tubes in

SPARE GEAR. State the articles supplied: 1/2 crank shaft, 1 Propeller shaft, 1 H.P. slide, 1 set Propeller blades, 1 Air Pump rod, 3 Slide Valve spindles, 1 Air connecting rod bushes, 20 Condenser tubes and packing, India Rubber Valve & Nuts & Mts assorted. And Spare Gear as required by the Rules

The foregoing is a correct description,

Manufacturer.

A & J Inglis

General Remarks (State quality of workmanship, opinions as to class, &c.)

The above Engine and Boiler have been constructed under special survey. The material and workmanship are of good description and well finished, and were found to be good and efficient when tested under steam. And are in my opinion eligible to be noted in the Society's Register Book. Clyde M.C. 10. 83

Submitted that this should be entered in the Register of M.C. 10. 83
M.C. 10. 83
30-10-83

The amount of Entry Fee .. £ 3: 0: 0 received by me,
Special £ 35: 10: 0
Donkey Boiler Fee £ 0: 0: 0
Certificate (if required) .. £ 0: 0: 0 26/10/1883
To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute

TUESDAY 30 OCT 1883

+ [Signature]

J. M. C. Gregor

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Clyde District

