

REPORT ON MACHINERY.

Port of Glasgow

Received at London Office FEB. 20 FEB 1906

No. in Survey held at Glasgow

Date, first Survey 3 March or Last Survey 12 July 1906

Reg. Book.

(Number of Visits)

on the S.S. "KILKERRAN."

Tons } Gross
Net

Master Built at Glasgow By whom built C. Connell & Co.

When built 1906

Engines made at Glasgow By whom made Dunsmuir & Jackson Ltd when made 1906

Boilers made at Glasgow By whom made do do when made 1906

Registered Horse Power Owners Port belonging to Glasgow

Nom. Horse Power as per Section 28 382 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted No.

ENGINES, &c.—Description of Engines Triple expansion-screw No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 25 1/2", 42", 68" Length of Stroke 45" Revs. per minute 75 Dia. of Screw shaft 13.8" Material of screw shaft iron
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight in the propeller boss yes. If the liner is in more than one length are the joints burned ✓ If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If two liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 4" 8"
 Dia. of Tunnel shaft 12.57" Dia. of Crank shaft journals 13.2" Dia. of Crank pin 13 1/2" Size of Crank webs 8 7/8" Dia. of thrust shaft under collars 13 1/2" Dia. of screw 16" 6" Pitch of screw 18" 0" No. of blades 4 State whether moveable yes Total surface 88 sq. ft.
 No. of Feed pumps 2 Diameter of ditto 3 3/4" Stroke 24" Can one be overhauled while the other is at work yes.
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work yes.
 No. of Donkey Engines 5 Sizes of Pumps 2 weirs 8x6x21 - 4 1/2 x 3 x 6" No. and size of Suctions connected to both Bilge and Donkey pumps 11 x 11 x 11 - 6 x 4 1/4 x 6"
 In Engine Room Four 3" dia. In Holds, &c. Two 3" dia. in each Nos 1, 2 & 3 holds, One in No 4 hold, & in tunnel well.
 No. of bilge injections 1 sizes 5 Connected to condenser, or to circulating pump pump Is a separate donkey suction fitted in Engine room & size yes 3 1/2"
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves & cocks.
 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 and all boiler mountings accessible at all times yes
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock before launch Is the screw shaft tunnel watertight yes
 Is it fitted with a watertight door yes worked from top platform.

BOILERS, &c.—No. of Certificate 7769 (Letter for record (S)) Total Heating Surface of Boilers 5212 Is forced draft fitted yes
 No. and Description of Boilers Two single ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs
 Date of test 9/10/05 Can each boiler be worked separately yes Area of fire grate in each boiler 51.93 No. and Description of safety valves to each boiler 2 pakent spring Area of each valve 8.29 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 15" 3" Length 12" 0" Material of shell plates steel
 Thickness 1 1/32" Range of tensile strength 28 to 32 Are they welded or flanged no Descrip. of riveting: cir. seams ends double centre treble long. seams treble
 Diameter of rivet holes in long. seams 1 7/16" Pitch of rivets 9 5/8" Lap of plates or width of butt straps 1" 9"
 Per centages of strength of longitudinal joint rivets 85 Working pressure of shell by rules 207 lbs Size of manhole in shell 16" x 12" plate 89.6
 Size of compensating ring Wheils No. and Description of Furnaces in each boiler 3 Deighton Material steel Outside diameter 3" 11"
 Length of plain part top } Thickness of plates crown } 19 3/32" Description of longitudinal joint welded No. of strengthening rings ✓ bottom } bottom }
 Working pressure of furnace by the rules 201 lbs Combustion chamber plates: Material steel Thickness: Sides 3/32" Back 5/8" Top 2/32" Bottom 15/16"
 Pitch of stays to ditto: Sides 9" x 8 7/16" Back 8 1/2" x 8 7/16" Top 9" x 8 3/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 185 lbs
 Material of stays steel Area at smallest part 1.76 Area supported by each stay 78.75 Working pressure by rules 188 lbs End plates in steam space: Material steel Thickness 1 5/16" Pitch of stays 18 1/2" x 16 1/2" How are stays secured nuts Working pressure by rules 206 lbs Material of stays steel Area at smallest part 6.33 Area supported by each stay 305 1/4 Working pressure by rules 207 Material of Front plates at bottom steel
 Thickness 7/8" Material of Lower back plate steel Thickness 7/8" Greatest pitch of stays 13 1/2" x 8 7/16" Working pressure of plate by rules 206 lbs
 Diameter of tubes 2 1/2" Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates steel Thickness: Front 1 5/8" Back 3/4" Mean pitch of stays 9 3/8"
 Pitch across wide water spaces 13 1/2" Working pressures by rules 180 lbs Girders to Chamber tops: Material iron Depth and thickness of girder at centre 9 1/2" x 2-1" Length as per rule 2" 10 5/8" Distance apart 9" Number and pitch of Stays in each 3 - 8 3/4"
 Working pressure by rules 201 lbs Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint 2020 Diam. of rivet holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓
 Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship?

2m.35.—T.

