

REPORT ON MACHINERY.

No. 43851

Received at London Office

WED. JUL 30 1924

10

When handed in at Local Office 22.7.1924 Port of

Glasgow

Date, First Survey 6th Apr 1923 Last Survey 15 July 1924

(Number of Visits)

held at

Glasgow

T.S.S. TAKLIWA

Gross 7936
Net 3942

Built at Glasgow

By whom built Barclay Curle & Co. Ltd. (No. 601) When built 1924

By whom made Barclay Curle & Co. Ltd. (No. 601)

when made 1924

By whom made Barclay Curle & Co. Ltd. (No. 601)

when made 1924

Owners British India Steam Navigation Co. Ltd. Port belonging to London.

Power

as per Section 28 1376

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

2.—Description of Engines Twin Screw Four Crank Triple Expansion No. of Cylinders 8 No. of Cranks 8

25'-4 1/2"-51'-51" Length of Stroke 61" Revs. per minute Dia. of Screw shaft as fitted 15 1/2" Material of screw shaft Steel

fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

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

ings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Fits whole length If two

is the shaft lapped or protected between the liners Length of stern bush 5'-2" No OIL GLAND

as fitted 14 3/8" Dia. of Crank shaft journals as fitted 15 1/8" Dia. of Crank pin 15 1/8" Size of Crank webs 21 5/8" x 9 1/2" Dia. of thrust shaft under

Dia. of screw 16'-6" Pitch of Screw 19'-6" No. of Blades 3 State whether moveable Yes Total surface 70 1/2

2 Weirs 17'-12 1/2"-24" Diameter of ditto 5 1/2" Stroke 25 1/2" Can one be overhauled while the other is at work Yes

1-8'-8'-8" in Strokehold & Emergency Bilge Pump (Electric) 120 tons/hour. Diameter of ditto 5 1/4" Stroke 25 1/2" Can one be overhauled while the other is at work Yes

Engines 3 Sizes of Pumps 8'-8'-10'-9'-11'-12'-18'-6'-18" No. and size of Suctions connected to both Bilge and Donkey pumps

4 0 3 1/2", 3 0 2 1/2" to Lateral, 10 2 1/2" to Port & 10 2 1/2" to aft Cofferdam In Holds, &c. No. 1 Hold 2 0 3 1/2", No. 2 Hold 2 0 3 1/2", No. 3 Hold 2 0 3 1/2",

3 1/2", No. 5 Hold 1 0 3 1/2", & 1 0 2 1/2" to Tunnel Well.

ions 2 sizes 12" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size 3 0 5"

tion pipes fitted with roses Yes Are the in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible None

is with the sea direct on the skin of the ship Yes Are they Valves or Cocks both

iciently 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 below.

id 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.

carried through the bunkers None How are they protected

ocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

ction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

aft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper deck.

&c.—(Letter for record S) Manufacturers of Steel Wm Beardmore & Co. Ltd., D. Colville & Sons Ltd.

Surface of Boilers 21882 Is Forced Draft fitted Yes No. and Description of Boilers Seven Single Ended

sure 215 lbs/sq. Tested by hydraulic pressure to 373 lbs/sq. Date of test (2) 17.4.23 (3) 19.10.23 (3) 27.11.23 No. of Certificate (2) 16340 (3) 16360 (3) 16377

be worked separately Yes Area of fire grate in each boiler 75.164 No. and Description of Safety Valves to

between boilers or uptakes and bunkers or woodwork 2.3 Int Mean dia. of boilers 16'-6" Length 12'-0" Material of shell plates Steel

Range of tensile strength 31/35 tons/sq. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.LAP.

D.B.S. Diameter of rivet holes in long. seams 1 9/16" Pitch of rivets 10 3/8" Lap of plates or width of butt straps 22 7/8"

strength of longitudinal joint rivets 8.75 Working pressure of shell by rules 217 lbs/sq. Size of manhole in shell 16 1/2" x 20 1/2"

ating ring 3'-1 1/2" x 2'-9 1/2" x 1 1/2" No. and Description of Furnaces in each boiler 4 Morrison Material Steel Outside diameter 3'-6 1/2"

part top Thickness of plates crown 5" Description of longitudinal joint weld No. of strengthening rings none

bottom Thickness of plates bottom 5" Description of longitudinal joint weld No. of strengthening rings none

re of furnace by the rules 216 lbs/sq. Combustion chamber plates: Material Steel Thickness: Sides 1 1/8" Back 1 1/8" Top 1 1/8" Bottom 2 7/8"

o ditto: Sides 8 1/4" x 9" Back 9 1/4" x 8 1/2" Top 7 1/4" x 9 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 218 lbs/sq.

ys Steel Dia. over threads Area supported by each stay 75.1" Working pressure by rules 241 lbs/sq. End plates in steam space:

Thickness 1 3/8" Pitch of stays 22" x 18" How are stays secured D. nuts Working pressure by rules 219 lbs/sq. Material of stays Steel

ads part 3 3/8" Area supported by each stay 396" Working pressure by rules 220 lbs/sq. Material of Front plates at bottom Steel

Material of Lower back plate Steel Thickness 2 7/8" Greatest pitch of stays 14 1/2" x 8 1/8" Working pressure of plate by rules 216 lbs/sq.

bes 2 1/2" Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates Steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 8.43"

wide water spaces 13 1/2" Working pressures by rules 220 lbs/sq. Girders to Chamber tops: Material Steel Depth and

order at centre 10 1/2" x 20 3/4" Length as per rule 2'-10 1/2" Distance apart 9 1/2" Number and pitch of stays in each 3 0 7 3/4"

sure by rules 220 lbs/sq. Steam dome: description of joint to shell None % of strength of joint —

Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet holes —

Working pressure of shell by rules — Crown plates — Thickness — How stayed

ATER. Type None Date of Approval of Plan — Tested by Hydraulic Pressure to —

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler —

Pressure to which each is adjusted — Is Easing Gear fitted —

Safety Valve —

288-0220

Lloyd's Register Foundation

