

REPORT ON MACHINERY.

No. 7330

of writing Report 17th Jan 1914 When handed in at Local Office 17th Jan 1914 Port of Belfast Received at London Office MON. FEB. 2 1914

in Survey held at Belfast Date, First Survey 28th Nov 1912 Last Survey 14 Jan 1914

Book. on the S.S. Star of Victoria (Number of Visits 119)

ster Beck Built at Belfast By whom built Workman Clark & Co L^{td} Tons Gross 4152 Net 5851 When built 1914

ines made at Belfast By whom made - when made -

lers made at - By whom made - when made -

istered Horse Power 949 Owners Star Line L^{td} Port belonging to Belfast

n. Horse Power as per Section 28 949 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

GINES, &c.—Description of Engines Twin Screw, Triple Expansion Cylinders 6 No. of Cranks 6

of Cylinders 24"-40 1/2"-68" Length of Stroke 48" Revs. per minute 76 Dia. of Screw shaft as per rule 14 1/8" Material of screw shaft as fitted 15 1/8" G. Steel

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

the propeller boss Yes If the liner is in more than one length are the joints burned No If the liner does not fit tightly at the part

ween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive No If two

rs are fitted, is the shaft lapped or protected between the liners No Length of stern bush 61"

of Tunnel shaft as per rule 12 8/9" Dia. of Crank shaft journals as per rule 13 5/8" Dia. of Crank pin 4 3/8" Size of Crank web 2 7/8" x 9 5/8" Dia. of thrust shaft under

ars 4 3/8" Dia. of screw 17'-0" Pitch of Screw 18'-9" No. of Blades 3 State whether moveable Yes Total surface 85 sq ft.

of Feed pumps one each engine Diameter of ditto 6 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

of Bilge pumps one each engine Diameter of ditto 5 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

of Donkey Engines See other sheet No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 4-3 1/2" In Holds, &c. 13-3 1/2" + 1-2 1/2"

of Bilge Injections 2 sizes 8 Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2"

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

all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

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 Below

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

at pipes are carried through the bunkers Fore hold suction How are they protected Wood casing

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

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

tes of examination of completion of fitting of Sea Connections 24-8-13 of Stern Tube 20-8-13 Screw shaft and Propeller 31-8-13

the Screw Shaft Tunnel watertight Stated to be it fitted with a watertight door Yes worked from Top platform E. Room

PLERS, &c.—(Letter for record 5) Manufacturers of Steel Beuchmare & Co L^{td} 20. 158 = 3026 14650 #. Total. 208 & 158.

al Heating Surface of Boilers 11624 sq ft Forced Draft fitted Yes No. and Description of Boilers 2, Double End, Cylind^r

orking Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 27-10-13 No. of Certificate 457

each boiler be worked separately Yes Area of fire grate in each boiler 147 sq ft No. and Description of Safety Valves to

boiler 3 - Direct Spring Area of each valve 14.19 sq Pressure to which they are adjusted 200 lbs Are they fitted with easing gear Yes

allest distance between boilers or uptakes and bunkers or woodwork about 20" Mean dia. of boilers 16'-3" Length 20'-3" Material of shell plates Steel

ckness 1 15/16" Range of tensile strength 30-33 1/2 tons the shell plates welded or flanged No Descrip. of riveting: cir. sec. Lap 19 & P.

be given at sea Butt Joints Diameter of rivet holes in long. seams 1 19/32" Pitch of rivets 10 1/2" Lap of plates or width of butt straps 23 7/8"

centages of strength of longitudinal joint rivets 91.9 Working pressure of shell by rules 233 lbs Size of manhole in shell 16" x 12"

of compensating ring McKeils No. and Description of Furnaces in each boiler 8 - Morrison Material Steel Outside diameter 45 1/4"

ngth of plain part top 3 1/4" Thickness of plates crown 3 1/4" Description of longitudinal joint Weld No. of strengthening rings 25 on C.C. bottom

orking pressure of furnace by the rules 229 lbs Combustion chamber plates: Material Steel Thickness: Sides 3 1/2" Back 3 1/2" Top 2 1/2" Bottom 2 3/4"

ch of stays to ditto: Sides 8 3/4" x 8 3/4" Back 8 3/4" x 8 3/4" Top 8 3/4" x 7" If stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 201 lbs

aterial of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 70 sq Working pressure by rules 226 lbs End plates in steam space:

aterial Steel Thickness 1 13/64" Pitch of stays 20 7/8" x 15 1/2" Are stays secured Nuts Working pressure by rules 203 lbs Material of stays Steel

iameter at smallest part 2 1/4" x 3 1/8" Area supported by each stay 32 1/8" Working pressure by rules 235 lbs Material of Front plates at bottom Steel

ckness 1" Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

iameter of tubes 2 1/2" Pitch of tubes 3 3/8" x 3 5/8" Material of tube plate Steel Thickness: Front 6 3/4" Back 4 7/8" Mean pitch of stays 7 1/2" x 4 1/4"

ch across wide water spaces 13 1/2" Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and

ckness of girder at centre 7 1/4" x (3 x 2) Length as per rule 52 3/8" Distance apart 8 1/2" Number and pitch of stays in each 6-4 x 8"

orking pressure by rules 256 lbs Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

ists 14 1/2" Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

orking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



