

REPORT ON MACHINERY.

No. 9067
MON. SEP. 1-1913

Received at London Office

Writing Report 10 When handed in at Local Office 29/8/13 Port of Grimsby
 Date, First Survey 6/12/12 Last Survey 28/7/13
 Survey held at Grimsby (Number of Visits 38)
 on the ss. Platian (Cochrane 160 N° 577)
 Built at Selly By whom built Cochrane Sons
 By whom made St. Central Co. op. Eng. H.R. Co. when made 1913
 By whom made do. when made 1913
 Owners St. Cent. Co. op. Eng. H.R. Co. Port belonging to Grimsby

Horse Power as per Section 28 45 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

Engines, &c.—Description of Engines Triple expansion Inverted No. of Cylinders 3 No. of Cranks 3
 of Cylinders 12-2 1/2-34 Length of Stroke 24 Revs. per minute 112 Dia. of Screw shaft 7.05 Material of screw shaft Iron
 as fitted 7.375

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 ✓ 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 yes If two

are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 35"

Dia. of Tunnel shaft 6.3" as per rule 6.61 Dia. of Crank shaft journals 7.0 as fitted 7.0 Dia. of Crank pin 7" Size of Crank webs 4 1/4 x 13 Dia. of thrust shaft under
 bars 7" Dia. of screw 8-6" Pitch of Screw 10'-9" No. of Blades 4 State whether moveable no Total surface 280'

of Feed pumps 1 Diameter of ditto 2 1/8 Stroke 24 Can one be overhauled while the other is at work ✓
 of Bilge pumps 1 Diameter of ditto 2 1/8 Stroke 24 Can one be overhauled while the other is at work ✓

of Donkey Engines 1 Sizes of Pumps 6 x 3 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 2" sea hotwell bilge In Holds, &c. 2" forehold stowroom

No. of Bilge Injections 1 sizes 3 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2 equal
 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 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 trick steam exhaust How are they protected wood casing

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

Dates of examination of completion of fitting of Sea Connections 17/6/13 at stern of Hull of Stern Tube 17/6/13 at Hull Screw shaft and Propeller at Hull

Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door worked from
 OILERS, &c.—(Letter for record S) Manufacturers of Steel Phoenix Abtly, Hoelder Vereen

Total Heating Surface of Boilers 1340 Is Forced Draft fitted no No. and Description of Boilers one SE return tube
 Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 23.7.13 No. of Certificate 116

Can each boiler be worked separately ✓ Area of fire grate in each boiler 35 No. and Description of Safety Valves to
 each boiler 2 direct drum Area of each valve 3.98 Pressure to which they are adjusted 180 lb Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers on woodwork 8" Mean dia. of boilers 12-6 Length 10-0 Material of shell plates S
 Thickness 1 3/32 Range of tensile strength 28/32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double

long. seams treble Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 3/4 Lap of plates on width of butt straps 16 5/8
 Per centages of strength of longitudinal joint
 rivets 87.0 Working pressure of shell by rules 194 Size of manhole in shell 12 x 16
 plate 85.5

Size of compensating ring 16 x 16 x 1 1/8 No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 43
 Length of plain part 3.70 Thickness of plates 3/4 Description of longitudinal joint welded No. of strengthening rings none

Working pressure of furnace by the rules 181 Combustion chamber plates: Material S Thickness: Sides 3/32 Back 3/32 Top 2/32 Bottom 13/16
 Pitch of stays to ditto: Sides 9 1/4 x 8 3/4 Back 9 x 8 3/4 Top 9 1/4 x 8 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 184

Material of stays S area at smallest part 2.1 Area supported by each stay 81 Working pressure by rules 207 End plates in steam space:
 Material S Thickness 1 1/8 Pitch of stays 17 1/2 x 18 How are stays secured d. nuts + washers Working pressure by rules 190 Material of stays S

area at smallest part 6.6 Area supported by each stay 320 Working pressure by rules 215 Material of Front plates at bottom S
 Thickness 1 Material of Lower back plate S Thickness 15/16 Greatest pitch of stays 16 Working pressure of plate by rules 180

Diameter of tubes 3 1/4 Pitch of tubes 4 1/2 Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 9
 Pitch across wide water spaces 14 1/4 Working pressures by rules 190 Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 2 (9 x 3/4) Length as per rule 31.5 Distance apart 8 1/4 Number and pitch of stays in each 2-9 1/4

Working pressure by rules 223. Superheater or Steam chest; how connected to boiler
 Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Working pressure by rules End plates: Thickness How stayed

Are they fitted with easing gear



