

REPORT ON MACHINERY

No. 1229

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No. in Survey held at Newcastle at S.W. Date, First Survey Last Survey 19 Reg. Book on the Steam screw steamer Cromanga

Master Built at Newcastle By whom built at S.W. Port Dockyard When built 1921

Engines made at Newcastle By whom made at S.W. Port Dockyard when made 1921

Boilers made at Newcastle By whom made at S.W. Port Dockyard when made 1921

Registered Horse Power Owners Commercial Line of S. S. S. S. Port belonging to

Net Horse Power as per Section 28 519 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c. Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

No. of Cylinders 35, 41, 68 Length of Stroke 45 Revs. per minute 75 Dia. of Screw shaft as per rule 13 3/4 Material of screw shaft as fitted 14 1/2 Steel

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

the propeller boss Yes If the liner is in more than one length are the joints burned Swaled 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

shafts are fitted, is the shaft lapped or protected between the liners Length of stern bush 5' 0"

No. of Tunnel shaft as per rule 12 1/2 Dia. of Crank shaft journals as per rule 13 1/4 Dia. of Crank pin 13 1/4 Size of Crank webs 27 1/2 x 8 3/4 Dia. of thrust shaft under

blades 13 1/4 Dia. of screw 16 1/2 Pitch of Screw 16 1/2 No. of Blades 4 State whether movable No Total surface

No. of Feed pumps 2 Diameter of ditto 7 1/2 Stroke 21 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 24 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 1 Sizes of Pumps 12 1/2 x 21 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 3-3 1/2 Dia, 1-4 1/2 Dia In Holds, &c. 6-3 1/2 Dia to Holds, 3 1/2 Dia to Tunnel

No. of Bilge Injections 1 sizes 8" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size No

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 Yes

Are all connections with the sea direct on the skin of the ship other valves Are they Valves or Cocks Valves main engine

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates No 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

Are all pipes carried through the bunkers None pipes 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 bilge Yes

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from main deck

MANIFOLDERS, &c. (Letter for record) Manufacturers of Steel Messrs Stewart & Lloyd

Total Heating Surface of Boilers 8289 Is Forced Draft fitted Yes No. and Description of Boilers 3, Water tube S.W. patent

Working Pressure 190 lbs Tested by hydraulic pressure to 440 lbs Date of test No. of Certificate

Can each boiler be worked separately Yes Area of fire grate in each boiler 84 5/8 No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 9 6/4 Pressure to which they are adjusted 190 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates Steel

Thickness 1 1/16 Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams OR Lap

seams 1 R Single butt Diameter of rivet holes in long, seams 5 7/32 Pitch of rivets 3 1/4 Lap of plates or width of butt straps 9"

Percentages of strength of longitudinal joint rivets 77.5% Working pressure of shell by rules 310 Size of manhole in shell 11" x 15"

Thickness of compensating ring 3 1/2 x 2 1/2 x 7/8 No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part top bottom Thickness of plates crown bottom Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Length of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Material Steel Thickness 1 3/16 Pitch of stays How are stays secured Working pressure by rules 240 Material of stays

Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Thickness Material of Lower back plate S Hadus Thickness 1 7/8 Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes 1 3/8 x 1 5/8 Pitch of tubes 2 7/8 x 2 3/4 Material of tube plates Steel Thickness: Front Back Mean pitch of stays 9"

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