

REPORT ON MACHINERY

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No. 839W
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Date of writing Report 23.4.14 10 When handed in at Local Office 24.4.14 10 Port of MIDDLESBRO'

To. in Survey held at Stockton-on-Tees Date, First Survey 24th Oct. 1913 Last Survey 17th April 1914
Reg. Book.

on the Steel screw steamer "Moorish Prince" (S.S. No. 384) Tons Gross 5943
Master Thomas Built at Sunderland By whom built Messrs Short Bros & Co. Ltd. When built 1914

Engines made at Stockton By whom made Messrs Blair & Co. Ltd. (No. 1792) when made 1914
Boilers made at Stockton By whom made Messrs Blair & Co. Ltd. when made 1914

Registered Horse Power Owners Prince Line Ltd. (J. Knott Mgr) Port belonging to Newcastle

nom. Horse Power as per Section 28 624 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Quadruple Compound No. of Cylinders 4 No. of Cranks 4
Dia. of Cylinders 25½-36½-52½-76 Length of Stroke 54 Revs. per minute 68 Dia. of Screw shaft as per rule 15.78 Material of screw shaft iron
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 in one 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 tight fit If two
screws are fitted, is the shaft lapped or protected between the liners Length of stern bush 5'-7½"

Dia. of Tunnel shaft as per rule 14.19 Dia. of Crank shaft journals as per rule 14.9 Dia. of Crank pin 15¾ Size of Crank webs 25" x 10½" Dia. of thrust shaft under
flanges 15¾ Dia. of screw 19" Pitch of Screw 18" No. of Blades 4 State whether moveable yes Total surface 108 sq ft

No. of Feed pumps 2 Diameter of ditto 4" Stroke 36" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 5" Stroke 36" Can one be overhauled while the other is at work yes

No. of Donkey Engines 3 Sizes of Pumps Ballant 12" x 10" and 8" x 24" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 30 x 3½ In Holds, &c. 2 @ 3½ each hold: Fumel will run @ 7½: one

2 in each 10" cofferdam on Tank line: Portable change pipes & blank flanges on oil fuel & tank line for D.B. & deep tank
of Bilge Injections 1 sizes 10" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes - 4"

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

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 above

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

if pipes are carried through the bunkers suction to fore holds How are they protected wood ceiling

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

date of examination of completion of fitting of Sea Connections 20-2-14 of Stern Tube 20-2-14 Screw shaft and Propeller 26.3.14

the Screw Shaft Tunnel was light see hull Report Is it fitted with a watertight door yes worked from Top platform

BOILERS, &c.—(Letter for record (a)) Manufacturers of Steel Messrs John Spencer & Sons Ltd. Howden

Total Heating Surface of Boilers 8775 Is Forced Draft fitted yes No. and Description of Boilers 3 Single ended

Working Pressure 220 Tested by hydraulic pressure to 440 Date of test 2.4.14 No. of Certificate 5267

Can each boiler be worked separately yes Area of fire grate in each boiler 62.83 sq ft No. and Description of Safety Valves to

each boiler 2 direct spring Area of each valve 9.62 Pressure to which they are adjusted 220 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 3'-0" Mean dia. of boilers 16'-0" Length 12'-3" Material of shell plates steel

Thickness 1¾ Range of tensile strength 27-33 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams 2 R. laps

seams 2 B-3 Riv Diameter of rivet holes in long. seams 1¾ Pitch of rivets 10½ Lap of plates or width of butt straps 24½ x 1¾

5 Rivets per pitch rivets 97.2 Working pressure of shell by rules 261 Size of manhole in shell 16" x 12"

Centages of strength of longitudinal joint plate 83.33 No. and Description of Furnaces in each boiler 3 Horizontal Material steel Outside diameter 49½"

Length of plain part top bottom Thickness of plates crown bottom 3" 4" Description of longitudinal joint Weld No. of strengthening rings

Working pressure of furnace by the rules 314 Combustion chamber plates: Material steel Thickness: Sides ¾" Back 23/32" Top ¾" Bottom 15/16"

No. of stays to ditto: Sides 8¾ x 8¾ Back 7½ x 7½ Top 8½ x 10 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 234

Material of stays iron Diameter at smallest part 2.66 Area supported by each stay 81.25 Working pressure by rules 245 End plates in steam space:

Material steel Thickness 1¾ Pitch of stays 16½ x 15 How are stays secured nuts & washers Working pressure by rules 220 Material of stays iron

Area at smallest part 9.15 Area supported by each stay 281 Working pressure by rules 244 Material of Front plates at bottom steel

Thickness 1½ Material of Lower back plate steel Thickness 1¾ Greatest pitch of stays 15½ x 7½ Working pressure of plate by rules 280

Diameter of tubes 2½ Pitch of tubes 3¾ x 3¾ Material of tube plates steel Thickness: Front 1¾ Back 7/8 Mean pitch of stays 8½"

th across wide water spaces 13½ Working pressures by rules 235 Girders to Chamber tops: Material steel Depth and

Thickness of girder at centre 9" x 2" Length as per rule 34.03 Distance apart 8½" Number and pitch of stays in each 2 @ 10"

Working pressure by rules 259 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 Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

strengthened 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

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