

REPORT ON MACHINERY.

No. 9296
- MAR 1925

Received at London Office

of writing Report 2 - 3 - 1925 When handed in at Local Office 5 - 3 - 1925 Port of Belfast
in Survey held at Belfast Date, First Survey 14th Aug 1923 Last Survey 26th Feby 1925
Book. on the New Steel Y.S.S. Razmak (Number of Visits 121)

ster Built at Greenock By whom built Harland & Wolff Ltd Tons } Gross }
Net }
When built 1925

ines made at Belfast By whom made Harland & Wolff Ltd when made 1925
lers made at Belfast By whom made Harland & Wolff Ltd when made 1925

istered Horse Power Owners Peninsular & Oriental Steam Nav Coy Port belonging to Greenock
Horse Power as per Section 28 1949 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

INES, &c. Description of Engines Quad Triple Expansion Twin Screw No. of Cylinders 8 No. of Cranks 8
of Cylinders 30 1/2, 11, 6 1/2, 8 1/2 Length of Stroke 54 Revs. per minute 95 Dia. of Screw shaft as per rule 14 1/2 Material of screw shaft Steel
as fitted 14 3/4

ie 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
he propeller boss yes If the liner is in more than one length are the joints burned yes If the liner does not fit tightly at the part
een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two
s are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 6'-6"

of Tunnel shaft as per rule 16" Dia. of Crank shaft journals as per rule 16.8 Dia. of Crank pin 18 1/2" Size of Crank webs 2' 8 1/2" x 12 1/2"
as fitted 16 1/2" as fitted 14 1/2" Dia. of thrust shaft under
rs 18 1/8" Dia. of screw 14 1/2" Pitch of Screw 22'-6" No. of Blades 3 State whether moveable yes Total surface 14 1/2'
of Feed pumps 3 Weirs Diameter of ditto 14" Stroke 26" Can one be overhauled while the other is at work yes

of Bilge pumps See list Diameter of ditto 14" Stroke 26" Can one be overhauled while the other is at work yes
of Donkey Engines See list Sizes of Pumps See list No. and size of Suctions connected to both Bilge and Donkey pumps See list

Engine Room 5 @ 3 1/2' x 1 @ 4' Bal. Room all 3 @ 3 1/2' x 3 @ 3 1/2' In Holds, &c. no 1 @ 3 1/2' No 2 @ 3 1/2' x 1 @ 2 1/2'
3 @ 2 @ 3 1/2' x 1 @ 2 1/2' Chainlocks 1 @ 3' to 4' 1 @ 3 1/2', Tunnel 2 @ 3 1/2'

f Bilge Injections 2 sizes 13" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 2 @ 6"
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
all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both
they sized 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
pipes are carried through the bunkers none How are they protected yes

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
he Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Boat deck & Bridge
ERS, &c. — (Letter for record 5) Manufacturers of Steel D. Bell & Sons Ltd.

Heating Surface of Boilers 29610 Is Forced Draft fitted yes No. and Description of Boilers H.P.E., 2'S.E.
ing Pressure 15 Tested by hydraulic pressure to 3 1/2 Date of test see separate reports No. of Certificate 4.D. & 2.S.B.

each boiler be worked separately yes Area of fire grate in each boiler see list No. and Description of Safety Valves to
boiler see list Area of each valve see list Pressure to which they are adjusted 220 lbs Are they fitted with easing gear yes

st distance between boilers or uptakes and bunkers or woodwork 24" Mean dia. of boilers see list Length see list Material of shell plates see list
ess Range of tensile strength see list Are the shell plates welded or flanged see list Descrip. of riveting: cir. seams see list
seams Diameter of rivet holes in long. seams see list Pitch of rivets see list Lap of plates or width of butt straps see list
ntages of strength of longitudinal joint rivets: see list Working pressure of shell by rules see list Size of manhole in shell see list
plate see list

compensating ring No. and Description of Furnaces in each boiler see list Material see list Outside diameter see list
of plain part top see list Thickness of plates crown see list Description of longitudinal joint see list No. of strengthening rings see list
bottom see list

ng pressure of furnace by the rules Combustion chamber plates: Material see list Thickness Sides see list Back see list Top see list Bottom see list
of stays to ditto: Sides see list Back see list Top see list If stays are fitted with nuts or riveted heads see list Working pressure by rules see list

ial of stays Area at smallest part see list Area supported by each stay see list Working pressure by rules see list End plates in steam space: see list
ial Thickness see list Pitch of stays see list How are stays secured see list Working pressure by rules see list Material of stays see list

at smallest part Area supported by each stay see list Working pressure by rules see list Material of Front plates at bottom see list
ess Material of Lower back plate see list Thickness see list Greatest pitch of stays see list Working pressure of plate by rules see list

er of tubes Pitch of tubes see list Material of tube plates see list Thickness: Front see list Back see list Mean pitch of stays see list
across wide water spaces Working pressures by rules see list Girders, to Chamber tops: Material see list Depth and see list
ss of girder at centre Length as per rule see list Distance apart see list Number and pitch of stays in each see list

ng pressure by rules Steam dome: description of joint to shell see list % of strength of joint see list
er Thickness of shell plates see list Material see list Description of longitudinal joint see list Diam. of rivet holes see list

r rivets Working pressure of shell by rules see list Crown plates see list Thickness see list How stayed see list
HEATER. Type see list Date of Approval of Plan see list Tested by Hydraulic Pressure to see list

Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler see list
of Safety Valve Pressure to which each is adjusted see list Is Easing Gear fitted see list

