

REPORT ON MACHINERY.

No. 35272

Received at London Office

WED. JUL. 21 1924

Date of writing Report 30-6-1924 When handed in at Local Office

30/6/1924 Port of

Hull

No. in Survey held at
Reg. Book.

Hull

Date, First Survey 31-5-23

Last Survey 20-6-1924

(Number of Visits 27)

on the S.S.

"BLUE GALLEON"

Gross 712.15
Net 337.07

Master

Built at Selby

By whom built Cochran & Sons Ltd.

When built 1924

Engines made at

Hull

By whom made

Amos & Smith Ltd. (No 3499) when made 1924

Boilers made at

Hull

By whom made

Amos & Smith Ltd. (-do-) when made 1924

Registered Horse Power

Owners Gallen Shipping Co. Ltd.

Port belonging to Newcastle.

Nom. Horse Power as per Section 28

104

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks 3

Dia. of Cylinders 14½-24-40

Length of Stroke 27

Revs. per minute 94

Dia. of Screw shaft

as per rule 8.53

Material of 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

in the 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

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush 35

Dia. of Tunnel shaft

as per rule 7.25

Dia. of Crank shaft journals

as per rule 7.67

Dia. of Crank pin 7¾

Size of Crank webs 15x4¾

Dia. of thrust shaft under

collars 7¾

Dia. of screw 11-0

Pitch of Screw 12-0

No. of Blades 4

State whether moveable no

Total surface 36 sq

No. of Feed pumps 2

Diameter of ditto 2½

Stroke 18

Can one be overhauled while the other is at work

yes

No. of Bilge pumps 2

Diameter of ditto 2½

Stroke 18

Can one be overhauled while the other is at work

yes

No. of Donkey Engines 2

Sizes of Pumps 6¼x4¾x6; 6x6x6

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 2½, one for & one aft.

In Holds, &c. Two 2½, one port & one starboard.

No. of Bilge Injections 1 sizes 3½

Connected to condenser, or to circulating pump pump

Is a separate Donkey Suction fitted in Engine room & size yes, 2½

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

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

hold suction

How are they protected

wood casings

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

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

BOILERS, &c.—(Letter for record S.)

Manufacturers of Steel

John Spencer & Sons, Ltd.

ISB.

Total Heating Surface of Boilers 1800

Is Forced Draft fitted

no

No. and Description of Boilers

one single ended main

Working Pressure 180

Tested by hydraulic pressure to

320 lbs.

Date of test 13-2-24

No. of Certificate 3518.

Can each boiler be worked separately

yes

Area of fire grate in each boiler 51.25

No. and Description of Safety Valves to

each boiler 2 spring loaded

Area of each valve

5.939 sq

Pressure to which they are adjusted 180 lbs.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

Alt. 2'-0"

Mean dia. of boilers 14'-0"

Length 11-0

Material of shell plates S.

Thickness 1 5/32

Range of tensile strength 28/32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams D.R.

long. seams TRDBS.

Diameter of rivet holes in long. seams 1 3/16

Pitch of rivets 8 1/8

Lap of plates or width of butt straps 17 1/2

Per centages of strength of longitudinal joint

rivets 88.8

plate 85.4

Working pressure of shell by rules 182

Size of manhole in shell 16x12

Size of compensating ring 40x30x1 1/32

No. and Description of Furnaces in each boiler

3 plain

Material S

Outside diameter 42 7/8

Length of plain part

top 84

Thickness of plates

crown 13

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by rules 195

Combustion chamber plates: Material S

Thickness: Sides 11/16

Back 21/32

Top 11/16

Bottom 7/8

Working pressure by rules 183.5

Pitch of stays to ditto: Sides

9x9 1/2

Back 9x9

Top 9 1/2 x 9 1/2

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 183.5

Material of stays S

Area at smallest part

Side 1 3/4

Area supported by each stay 81 sq

Working pressure by rules 187

End plates in steam space:

Material S

Thickness 1"

Pitch of stays 18 1/4 x 14 1/2

How are stays secured

D.N. & W.

Working pressure by rules 192

Material of stays S

Area at smallest part

Dia. 2 3/4

Area supported by each stay 260 sq

Working pressure by rules 212

Material of Front plates at bottom S

Thickness 7/8

Material of Lower back plate S

Thickness 7/8

Greatest pitch of stays 14x9 1/8

Working pressure of plate by rules 224

Mean pitch of stays 9 1/2 x 11 1/8

Diameter of tubes 3 1/2

Pitch of tubes 4 3/4 x 4 3/4

Material of tube plates S

Thickness: Front 2/8

Back 27/32

Pitch across wide water spaces 14

Working pressures by rules 183.5

Pitch across wide water spaces

Working pressures by rules 183.5

Girders to Chamber tops: Material S

Depth and

thickness of girder at centre 9x1 1/2

Length as per rule 2-9 1/2

Distance apart 9 1/2

Number and pitch of stays in each 2 @ 9 1/2

Working pressure by rules 210

Steam dome: description of joint to shell

%

of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

Diameter of Safety Valve

Pressure to which each is adjusted

Lloyd's Register

Foundation

W340-0134

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:-

Two top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of air, feed, & bilge pump valves, a quantity of assorted bolts & nuts, and iron of various sizes.

The foregoing is a correct description

FOR AMOS & SMITH LTD.

S. J. Robinson

SECRETARY.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1923:- May 31. Jun 19. Jul 9. Aug. 10. 14. 23. Oct. 12, 29. Nov 7. 26. Dec. 10. 19.
During erection on board vessel - - 1924:- Jan 10. 15. 17. 30. Feb. 10. 21. Mar 12, Apr 2, May 31. Jun 7. 4. 5. 12. 17. 20.
Total No. of visits 27

Is the approved plan of main boiler forwarded herewith

yes

Dates of Examination of principal parts—Cylinders 29-10-23 Slides 26-11-24 Covers 29-10-23 Pistons 19-12-23 Rods 19-12-23
Connecting rods 19-12-23 Crank shaft 19-12-23 Thrust shaft 19-12-23 Tunnel shafts ✓ Screw shaft 19-12-23 Propeller 2-4-24
Stern tube 2-4-24 Steam pipes tested 4-6-24 Engine and boiler seatings 31-5-24 Engines holding down bolts 12-6-24
Completion of pumping arrangements 20-6-24 Boilers fixed 12-6-24 Engines tried under steam 17-6-24
Completion of fitting sea connections 15-4-24 Stern tube 15-4-24 Screw shaft and propeller 15-4-24
Main boiler safety valves adjusted 17-6-24 Thickness of adjusting washers P $\frac{11}{32}$ S $\frac{11}{32}$.
Material of Crank shaft Steel Identification Mark on Do. 22 PF. Material of Thrust shaft Steel Identification Mark on Do. 23 PF.
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 24 PF.
Material of Steam Pipes S.D. Copper. Test pressure 400 lbs per sq"

Is an installation fitted for burning oil fuel

no

Is the flash point of the oil to be used over 150°F.

✓

Have the requirements of Section 49 of the Rules been complied with

✓

Is this machinery duplicate of a previous case

no

If so, state name of vessel

✓

General Remarks

(State quality of workmanship, opinions as to class, &c.)

The engines and boiler of this vessel have been built under special survey, and the materials and workmanship are good. The machinery has been properly fitted and secured on board the steamer "Blue Galleon". The steam and feed pipes have been tested as required by the Rules, and the safety valves adjusted under steam and tested for accumulation. On completion the machinery was tried under working conditions and found satisfactory. The machinery is now in a good and efficient condition, and eligible in my opinion to have the record + LMC 6.24 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 6.24. CL.

The amount of Entry Fee ... £ 3 : 0 :
Special ... £ 26 : - :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 1/7/1924
When received, 22/7/1924

Committee's Minute

FRI 4 JUL 1924

Assigned

+ Lmc 6.24

P. Fitzgerald.

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation