

## REPORT ON MACHINERY.

No. 84906

Date of writing Report

19

When handed in at Local Office

28 FEB 1923

Port of

Received at London Office

LIVERPOOL SAT. MAR. 3 1923

No. in Survey held at  
Reg. Book.

Lytham

Date, First Survey

23rd Mar/23

Last Survey

23rd Feb

1923.

(Number of Visits 15)

80014 on the

Vessel no 6. S/S. MONKSTONE

Tons

Gross 868

Net 426

Master

Built at

Bideford

By whom built

Hansen S.B. Co.

When built 1923

Engines made at

Lytham

By whom made

Lytham S.B. &amp; Eng. Co.

when made 1923

Boilers made at

Do

By whom made

Do

when made 1922

Registered Horse Power

✓

Owners

Hansen Shipping Co.  
(Hansen Bros. Imps.)

Port belonging to

London

Nom. Horse Power as per Section 28

107

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Yes

## ENGINES, &amp;c.—Description of Engines

Vertical Triple

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

15 + 25 + 41

Length of Stroke

27

Revs. per minute

105

Dia. of Screw shaft

as per rule 7.74

Material of

M. 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

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

✓

If two

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

Length of stern bush

3-3

Dia. of Tunnel shaft

as per rule 7.47

Dia. of Crank shaft journals

as per rule 6.9

Dia. of Crank pin

8 1/4

Size of Crank webs

12 x 5 1/4

Dia. of thrust shaft under

collars

8

Dia. of screw

10-6

Pitch of Screw

12-3

No. of Blades

4

State whether movable

No

Total surface

35 0'

No. of Feed pumps

2

Diameter of ditto

2 1/2

Stroke

12

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2 1/2

Stroke

12

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

Two

Sizes of Pumps

BAL. 6 x 4 x 6 Duplex D.A. Eng.

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

In Engine Room five 2 1/2" (Three in Eng. room &amp; Two in Stokelhol) Holds, &amp;c. Two in No. 1 Hold. Two in No. 2 Hold. 2 1/2" dia.

No. of Bilge Injections

One

size

4"

Connected to condenser or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room &amp; size

Yes

2 1/2"

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

wrap floor

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

✓

Is it fitted with a watertight door

✓

worked from

## BOILERS, &amp;c.—(Letter for record S)

Manufacturers of Steel

Messrs Beardmore &amp; Co.

Total Heating Surface of Boilers

1824

Is Forced Draft fitted

No

No. and Description of Boilers

2, cylindrical

Working Pressure

180

Tested by hydraulic pressure to

320 lbs

Date of test

20.10.

No. of Certificate

2213, 2214

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

30 0'

No. and Description of Safety Valves to

each boiler

2, spring loaded

Area of each valve

3-14 0"

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or

4-6

Mean dia. of boilers

10-6

Length

10'

Material of shell plates

M.S.

Thickness

29/32

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D.R. lap

long. seams

buckle butt

Diameter of rivet holes in long. seams

1/16

Pitch of rivets

7/8

Lap of plates or width of butt straps

14 3/4

Per centages of strength of longitudinal joint

rivets

102

plate

85.1

Working pressure of shell by rules

186

Size of manhole in shell

16 x 12

Size of compensating ring

7 x 3 x 7/8

No. and Description of Furnaces in each boiler

2, Daigham, corrugated

Material

M.S.

Outside diameter

3-4 1/2

Length of plain part

top

✓

bottom

Thickness of plates

crown

3/2

bottom

✓

Description of longitudinal joint

weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

187

Combustion chamber plates: Material

M.S.

Thickness: Sides

5/8

Back

5/8

Top

5/8

Bottom

11/16

Pitch of stays to ditto: Sides

9 x 8

Back

9 x 8 1/4

Top

9 x 8

If stays are fitted with nuts or rivet heads

Yes

Working pressure by rules

184

Material of stays

M.S.

Area at smallest part

1.79

Area supported by each stay

74.53

Working pressure by rules

217

End plates in steam space:

Material

M.S.

Thickness

3/32

Pitch of stays

15 x 14

How are stays secured

D. nut, 6" washers

Working pressure by rules

195

Material of stays

M.S.

Area at smallest part

3.67

Area supported by each stay

210

Working pressure by rules

184

Material of Front plates at bottom

M.S.

Thickness

3/32

Material of Lower back plate

M.S.

Thickness

3/16 + 1/16

greatest pitch of stays

as per plan

Working pressure of plate by rules

180

Diameter of tubes

3 1/2

Pitch of tubes

4 3/4 x 1 1/8

Material of tube plates

M.S.

Thickness: Front

3/32

Back

3/4

Mean pitch of stays

9 1/2 x 9 1/4

Pitch across wide water spaces

15

Working pressures by rules

236

Girders to Chamber tops: Material

M.S.

Depth and

thickness of girder at centre

7 3/4 x 3/4, 2

Length as per rule

30

Distance apart

8

Number and pitch of stays in each

2, 9"

Working pressure by rules

190

Steam dome: description of joint to shell

✓

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

002260-002268-0054

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Lloyd's Register  
Foundation



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two connecting rod top end & two bottom end bolts, nuts  
two main bearing bolts, 1 set of coupling bolts, 1 set of feed &  
bilge pump valves, 1 set of piston springs, A quantity of  
assorted bolts & nuts, & iron of various sizes.

The foregoing is a correct description,

THE LYTHAM SHIPBUILDING AND  
ENGINEERING COMPANY, LIMITED.

*W. Lindsey*

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1921. Mar. 25. April 7. May 3. 24. June 1. 27. - 1922 Aug. 18. Oct. 6. 12. 20. Nov. 3. 20. Dec. 6. - 1923 Jan. 25. Feb. 23.  
During erection on board vessel - - Feb. 24. Mar. 27. Apr. 16, 20, 25. May 2, 4. June 20.  
Total No. of visits 15. + 8 + 1

Is the approved plan of main boiler forwarded herewith *in an office.*

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 3.11.22 Slides 25.1.23 Covers 25.1.23 Pistons 25.1.23 Rods 25.1.23  
Connecting rods 25.1.23 Crank shaft 6.12.22 Thrust shaft 3.11.22 Tunnel shafts ✓ Screw shaft 25.1.23 Propeller 25.1.23  
Stern tube 25.1.23 Steam pipes tested 4.5.23 Engine and boiler seatings 4.4.23 Engines holding down bolts 28.4.23  
Completion of pumping arrangements 20.6.23 Boilers fixed 4.4.23 Engines tried under steam 20.6.23  
Completion of fitting sea connections 20.4.23 Stern tube 24.2.23 Screw shaft and propeller 20.4.23  
Main boiler safety valves adjusted 20.6.23 Thickness of adjusting washers Bol. 1/4 - 1/4 Sds 1/4 - 1/4  
Material of Crank shaft M.S. Identification Mark on Do. 1601 Material of Thrust shaft M.S. Identification Mark on Do. 1601  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts M.S. Identification Marks on Do. 1601  
Material of Steam Pipes Solid drawn copper Test pressure 360 lbs.

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 *Yes* If so, state name of vessel *S.S. 'Stevenstone', Monkstone, Sturdee Rose.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been built under Special Survey. The materials & workmanship are good. After erection in the shop, the engines & boilers have been forwarded to Ridesford to be fitted on board, and will then be eligible for record of + L.M.C. with date.*

*The boilers of this vessel were originally intended for the S.S. 'Sturdee Rose'.*

*These engine & boiler have now been fitted & secured on board. The machinery has been tried under working conditions & found satisfactory.*

The amount of Entry Fee ... £ 3 :  
Special *1/2* *Shipwright* £ 21 : 0  
Donkey Boiler Fee *1/2* *Shipwright* £ 5 : 7  
Travelling Expenses (if any) £ 6 : 1

When applied for,

28 FEB 1923

When received,

31 MAR 1923

*John W. Curry*

*S. Townsend*

Engineer Surveyor to Lloyd's Register of Shipping.

*W. A. Ferguson*

*W. A. Ferguson*

Committee's Minute

LIVERPOOL

6 JUL 1923

Assigned

*Transmit to London*

FRI JUL 20 1923

*+ Encl*

CERTIFICATE WRITTEN.