

REPORT ON MACHINERY.

No. 7726

Received at London Office THU. DEC. 28. 1911

Date of writing Report

19

When handed in at Local Office

27/12 10/11 Port of

Grimsby

No. in Survey held at

Grimsby

Date, First Survey

6/7

Last Survey

20/7/12 1911

Reg. Book.

694up. on the

steam trawler "Skuli Fogeti"

(Number of Visits 35)

Tons

Gross

Net

Master

Built at

Selby

By whom built

Cochrane & Sons

When built

1911

Engines made at

Grimsby

By whom made

D. Central Cooperative Eng. Ship

when made

1911

Boilers made at

do.

By whom made

do.

when made

1911

Registered Horse Power

Owners Arkiveidafjelagid allianci

Port belonging to

Leikjark

Nom. Horse Power as per Section 28

80

Is Refrigerating Machinery fitted for cargo purposes

no.

Is Electric Light fitted

no.

ENGINES, &c.—Description of Engines

Triple expansion inverted

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

13 13 13 1/2

Length of Stroke

24

Revs. per minute

Dia. of Screw shaft

as per rule 7.62

Material of

Iron

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

yes

If two

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

Length of stern bush

36"

Dia. of Tunnel shaft

as per rule 6.62

Dia. of Crank shaft journals

as per rule 6.95

Dia. of Crank pin

7 1/2

Size of Crank webs

4 1/2 x 14

Dia. of thrust shaft under

collars

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

one

Sizes of Pumps

6 x 3 1/2 x 6

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

In Engine Room

2 sea, hotwell, bilge

In Holds, &c.

2 forehold and foreroom (2)

No. of Bilge Injections

1

sizes

3"

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

2 1/2" ejector

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

none

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

steam + exhaust

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

Dates of examination of completion of fitting of Sea Connections

Sea at Hull

of Stern Tube

at Hull

Screw shaft and Propeller

at Hull

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

Phoenix Art. Sec. Abt. Hoelder Verein

Total Heating Surface of Boilers

1332

Is Forced Draft fitted

no

No. and Description of Boilers

one S.E. return tube

Working Pressure

180 lb.

Tested by hydraulic pressure to

360 lb.

Date of test

3/11/11

No. of Certificate

98

Can each boiler be worked separately

yes

Area of fire grate in each boiler

370

No. and Description of Safety Valves to

each boiler

2 direct spring

Area of each valve

3.980

Pressure to which they are adjusted

183 lb.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

8"

Mean dia. of boilers

13'-6"

Length

10'-6"

Material of shell plates

Thickness

1 1/8"

Range of tensile strength

28/32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

treble butt

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 1/2"

Gap of plates on

width of butt straps

18 1/8"

Per centages of strength of longitudinal joint

rivets 95.6

plate 85.2

Working pressure of shell by rules

185 lb.

Size of manhole in shell

12 x 16"

Size of compensating ring

16 x 16 x 1 1/8"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

38"

Length of plain part

top 66

Thickness of plates

crown 20/32

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

180

Combustion chamber plates: Material

S

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Bottom

1"

Pitch of stays to ditto: Sides

3/4 x 9

Back

8 1/2 x 9

Top

3/4 x 9 1/2

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

226

Material of stays

S

Diameter at smallest part

1.79

Area supported by each stay

43.50

Working pressure by rules

194

End plates in steam space:

Material

S

Thickness

1 1/16"

Pitch of stays

19 x 15

How are stays secured

washed

Working pressure by rules

183

Material of stays

S

Diameter

area

at smallest part

6.1

Area supported by each stay

285

Working pressure by rules

214

Material of Front plates at bottom

S

Thickness

1"

Material of Lower back plate

S

Thickness

15/16"

Mean

pitch of stays

13 3/4"

Working pressure of plate by rules

198

Mean pitch of stays

10 3/4"

Diameter of tubes

3 1/2"

Pitch of tubes

5 3/8"

Material of tube plates

S

Thickness: Front

1"

Back

7/8"

Mean pitch of stays

10 3/4"

Pitch across wide water spaces

14"

Working pressures by rules

182

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

9 1/2 x 7 1/2 (2)

Length as per rule

34

Distance apart

9 1/2"

Number and pitch of stays in each

3-7 1/4"

Working pressure by rules

185

Superheater or Steam chest; how connected to boiler

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

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Are they fitted with easing gear

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Foundation

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

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Working pressure by rules

End plates: Thickness

How stayed

Are they fitted with easing gear

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Foundation

Working pressure by rules

End plates: Thickness

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description						
Made at	By whom made		When made		Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety		
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment			
If fitted with easing gear	If steam from main boilers can enter the donkey boiler			Dia. of donkey boiler	Length		
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams				
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates		
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays			
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint			
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by				
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey				

SPARE GEAR. State the articles supplied:— 2 no top and bottom end and main bearing bolts nuts; a set of coupling bolts nuts; a set of feed, bridge & donkey valves; check & escape valves & safety valve springs; a set of air circulating pump valves, bolts, nuts & assorted iron.

The foregoing is a correct description, for H Central Co. of Eng Ship Repairing Co Ltd
 Manufacturer. *W W Stingle*

Dates of Survey while building	During progress of work in shops—	July 6. 19. 29 Aug 1. 3. 9. 15. 17. 23. 25. 31 Sep 9. 12. 25. 29 Oct 5. 9. 12. 16. 20. 21. 25. 27 Nov 3. 7
	During erection on board vessel—	Dec 7. 9. 11. 13. 15. 19. 20.
	Total No. of visits	35

Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders	HP 9/8 LP 17/8 IP 25/9	Slides	20/10	Covers	20/10	Pistons	25/9	Rods	9/9
Connecting rods	25/9	Crank shaft	20/10	Thrust shaft	16/11	Tunnel shafts	✓	Screw shaft	12/10
Propeller	9/10	Stern tube	9/10	Steam pipes tested	11.12.11	Engine and boiler seatings	any at Hull 20/11/11	Engines holding down bolts	13/12
Completion of pumping arrangements	18/12	Boilers fixed	11/12	Engines tried under steam	19/12	Thickens of adjusting washers	P 3/8 S 3/8 full.		
Main boiler safety valves adjusted	19/12	Material of Crank shaft	Identified with iron	Identification Mark on Do.	N° 426 20.10.11 C.M.	Material of Thrust shaft	Iron	Identification Mark on Do.	N° 436 16.11.11 C.M.
Material of Tunnel shafts	✓	Identification Marks on Do.	✓	Material of Screw shafts	Iron	Identification Marks on Do.	N° 423 12.11.11 W.H.R.		
Material of Steam Pipes	Solid drawn copper - 6 swg.	Test pressure	360 lb.						

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey, and the material and workmanship are good.

The engines & boiler were seen fitted on board the vessel in an efficient manner, and in my opinion the machinery is eligible for the record of + LMC 12.11

This machinery is a duplicate of St. Cambodia. Sms. report N° 7120.

The boiler is stamped

N° 98
 LLOYD'S TEST
 360 LBS.
 3.11.11
 C.M.

It is submitted that this vessel is eligible for THE RECORD, + LMC 12.11

JRL

JWR
 28/12/11

Chamell

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

The amount of Entry Fee	£ 1 : 0 : 0	When applied for,	28/12/11
Special	£ 12 : 0 : 0	When received,	21.2.12
Donkey Boiler Fee	£ :		
Travelling Expenses (if any)	£ :		

Committee's Minute TUE JAN 2 1912

Assigned

+ LMC 12.11



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Certificate (if required) to be sent to the Registrar of Shipping (The Registrar is requested not to write on or below the space for Committee's Minute.)