

## REPORT ON MACHINERY.

No. 28471

Received at London Office

FRI. MAY. 7 - 1915

Date of writing Report

19

When handed in at Local Office

26. 4. 1915

Port of Hull

o. in Survey held at

Hull

Date, First Survey

25. 11. 14

Last Survey

14 - 4 - 1915

gg. Book.

21. on the steel S. K. "VERESIS." (1085)

(Number of Visits 35)

Master

Built at

Telfer

By whom built

Cochrane &amp; Sons Ltd

Gross 302

Net 157

When built 1915.

Engines made at

Hull

By whom made

C. W. Holmes &amp; Co. Ltd

when made

1915.

Boilers made at

Hull

By whom made

C. W. Holmes &amp; Co. Ltd

when made

1915.

Registered Horse Power

Owners

Atlas Ste. Fishing Co

Port belonging to

Grimsby

om. Horse Power as per Section 28

84

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

GINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders

13" 23" 37"

Length of Stroke

24"

Revs. per minute

Dia. of Screw shaft

as per rule 7.64

Material of

screw shaft

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 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

2'-11 1/2"

Dia. of Tunnel shaft

as per rule 6.84

Dia. of Crank shaft journals

as per rule 7.19

Dia. of Crank pin

7/8"

Size of Crank web

4'8" x 4'8"

Dia. of thrust shaft under

rollers

Diameters

7/8"

Dia. of screw

9'3"

Pitch of Screw

11'-4 1/2"

No. of Blades 4

State whether moveable

no

Total surface

320

No. of Feed pumps

1

Diameter of ditto

2 3/4"

Stroke

14 1/4"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

1

Diameter of ditto

2 3/4"

Stroke

14 1/4"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

One

Sizes of Pumps

6" x 4 1/4" x 6"

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

Engine Room

2-2" One forward, one aft

In Holds, &amp;c.

4-2" Forecastle Mainhold

Forward slushwell, after slushwell

2 1/2" ejector from all bilges

No. of Bilge Injections

1

sizes

3 1/2"

Connected to condenser, or to circulating pump

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

That pipes are carried through the bunkers

Hold Suctions

How are they protected

Wood Casing

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

15.1.15.

of Stern Tube

15.1.15.

Screw shaft and Propeller

15.1.15.

Boilers, &amp;c.—(Letter for record

S)

Manufacturers of Steel

David Colville &amp; Sons Ltd

Total Heating Surface of Boilers

1400

Is Forced Draft fitted

no

No. and Description of Boilers

One Single-ended

Working Pressure

200 lbs.

Tested by hydraulic pressure to

400 lbs.

Date of test

23.2.15.

No. of Certificate

3059.

Can each boiler be worked separately

yes

Area of fire grate in each boiler

46.8

No. and Description of Safety Valves to

each boiler

2 Spring

Area of each valve

4.9

Pressure to which they are adjusted

20.5 lbs.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

7"

Mean dia. of boilers

165.5"

Length

10'6"

Material of shell plates

S

Thickness

1/4"

Range of tensile strength

28 tons

Are the shell plates welded or flanged

yes

Descrip. of riveting: cir. seams

A.R.

Riv. seams

T.R. 10, 13

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 1/2"

Lap of plates or width of butt straps

17 1/2"

Percentages of strength of longitudinal joint

rivets 85.4

plate 85.2

Working pressure of shell by rules

204

Size of manhole in shell

16 x 12

Size of compensating ring

7" x 1 1/4"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

39"

Length of plain part

top 6'5 1/2"

Thickness of plates

crown 5/16"

bottom 3/16"

Description of longitudinal joint

welded

No. of strengthening rings

one

Working pressure of furnace by the rules

207

Combustion chamber plates: Material

S

Thickness: Sides

11/16"

Back

11/16"

Top

11/16"

Pitch of stays to ditto: Sides

10 x 8"

Back

8 1/2" x 9 1/2"

Top

9 x 8"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

202

Material of stays

S

Diameter at smallest part

2.07"

Area supported by each stay

80

Working pressure by rules

233

End plates in steam space:

S

Material

S

Thickness

1 1/32"

Pitch of stays

14 1/2" x 17"

How are stays secured

B.A.W.

Working pressure by rules

210

Material of stays

S

Diameter at smallest part

7.5"

Area supported by each stay

331

Working pressure by rules

226

Material of Front plates at bottom

S

Thickness

1/32"

Material of Lower back plate

S

Thickness

29/32"

Greatest pitch of stays

14 x 9"

Working pressure of plate by rules

205

Diameter of tubes

3 1/2"

Pitch of tubes

5'8" x 5"

Material of tube plates

S

Thickness: Front

29/32"

Back

7/8"

Mean pitch of stays

10 1/4" x 10"

Pitch across wide water spaces

14 1/4"

Working pressures by rules

294

Girders to Chamber tops: Material

S

Depth and

Thickness of girder at centre

93/4" x 1 1/2"

Working pressure by rules

210

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

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

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Lloyd's Register

Foundation

W269-0128



IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:-

Two each top and bottom end connecting rod bolts & nuts, two main bearing bolts and nuts, one set of coupling bolts and nuts, one set each each feed & bilge pump valves, iron of various sizes, a quantity of assorted bolts & nuts etc.

The foregoing is a correct description,

P. PRO CHARLES D. HOLMES & CO. LTD.

Arthur Holmes

DIRECTOR Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1914: Nov 25, Dec 7, 16, 18, 22, 24, 30 1915: Jan 2, 5, 6, 7, 14, 15, 18, 20, 21, 28 Feb 4, 9.  
During erection on board vessel - - 13, 19, 23, 25 Mar 1, 5, 11, 12, 15, 24, 25, 31, Apr 9, 12, 14  
Total No. of visits 35

Is the approved plan of main boiler forwarded with Rpt No 2842

1/2" Melbeck

Dates of Examination of principal parts - Cylinders 27-1-15, Slides 11-3-15, Covers 11-3-15, Pistons 11-3-15, Rods 25-2-15, Connecting rod 25-2-15, Crank shaft 21-1-15, Thrust shaft 15-3-15, Tunnel shafts 14-1-15, Screw shaft 14-1-15, Propeller 14-1-15, Stern tube 14-1-15, Steam pipes tested 12-4-15, Engine and boiler seatings 18-1-15, Engines holding down bolts 12-4-15, Completion of pumping arrangements 14-4-15, Boilers fixed 12-4-15, Engines tried under steam 9-4-15, Main boiler safety valves adjusted 9-4-15, Thickness of adjusting washers FV 3/8" AV 3/8"

Material of Crank shaft S. Identification Mark on Do. 1421. Material of Thrust shaft S. Identification Mark on Do. 1438.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts S. Identification Marks on Do. 1419.

Material of Steam Pipes Copper solid drawn. Test pressure 400 lbs. hyd. press.

Is an installation fitted for burning oil fuel. 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.T. "Melbeck".

General Remarks (State quality of workmanship, opinions as to class, &c. The engines & boiler of this vessel have been constructed under special survey in accordance with the rules. The materials and workmanship are sound and good. The boiler tested by hydraulic pressure and with the engines secured on board and tested under steam. They are now in good order & safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of time 4.15 in the Register book.

It is submitted that this vessel is eligible for THE RECORD + LMC 4.15.

JWR

7/5/15

The amount of Entry Fee ... £ 1 : : When applied for, 6-5-15  
Special ... £ 12 : 12 : :  
Donkey Boiler Fee ... £ : : : When received, 15/5  
Travelling Expenses (if any) £ : 8 : 2 14/5 19/5

J.G. MacKillop

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

Committee's Minute

TUE. MAY 11. 1915

Assigned

+ LMC 4.15

MACHINERY CERTIFICATE 123112



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