

REPORT ON MACHINERY.

No. 28572.

Received at London Office TUE. JUN. 15 1915

Date of writing Report

19

When handed in at Local Office

12-5-15 Port of

Hull

No. in Survey held at

Hull

Date, First Survey

28-8-14

Last Survey

20-5-1915.

Reg. Book.

5 Supp. on the

Steam Trawler "SEAWARD HO."

(Number of Visits 46)

Master

Built at Beverley

By whom built Cook, Wilton & Gemmell

Tons Gross 331

Net 138

When built 1915-

Engines made at

Hull

By whom made

Amos & Smith (No 2599)

when made 1915

Boilers made at

Hull

By whom made

Amos & Smith

when made 1915

Registered Horse Power

Owners S.T. White & Co. Ltd.

Port belonging to Hull

Nom. Horse Power as per Section 28

90

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

13", 22 3/4", 37"

Length of Stroke

26"

Revs. per minute

Dia. of Screw shaft

as per rule 7.94

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

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

3'-0"

Dia. of Tunnel shaft

as per rule 7.02

Dia. of Crank shaft journals

as per rule 7.37

Dia. of Crank pin

7 1/2"

Size of Crank webs

14 3/4" x 4 3/4"

Dia. of thrust shaft under

collars

7 1/2"

Dia. of screw

9-9"

Pitch of Screw

11-3"

No. of Blades

4

State whether moveable

no

Total surface

34 sq ft

No. of Feed pumps

1

Diameter of ditto

2 7/8"

Stroke

12"

Can one be overhauled while the other is at work

No. of Bilge pumps

1

Diameter of ditto

2 7/8"

Stroke

12"

Can one be overhauled while the other is at work

No. of Donkey Engines

1

Sizes of Pumps

6" x 4 1/4" x 6"

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

In Engine Room

2-2" forward & aft.

In Holds, &c. 6-2"; one to spare fishroom.

one to main fishroom, one to store room, & 3 to slushwells in fishroom.

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

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

yes

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

Dates of examination of completion of fitting of Sea Connections

29-10-14

of Stern Tube

29-10-14

Screw shaft and Propeller

29-10-14

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

OILERS, &c.—(Letter for record

S)

Manufacturers of Steel

W. Beardmore & Co.

Glasgow

Total Heating Surface of Boilers

1511

Is Forced Draft fitted

no

No. and Description of Boilers

one single ended

Working Pressure

200 lb

Tested by hydraulic pressure to

400 lb

Date of test

8-4-15

No. of Certificate

3070

Can each boiler be worked separately

yes

Area of fire grate in each boiler

48.125 sq ft

No. and Description of Safety Valves to

each boiler

2 spring loaded

Area of each valve

4.9 sq ft

Pressure to which they are adjusted

200 lb

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

abt 8"

Mean dia. of boilers

13-9"

Length

10-7 3/32"

Material of shell plates

steel

Thickness

1 3/16"

Range of tensile strength

29/33 ton

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR.

long. seams

TRDBS

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 3/4"

Lap of plates or width of butt straps

17 3/4"

Per centages of strength of longitudinal joint

rivets

87-83

plate

85-71

Working pressure of shell by rules

200

Size of manhole in shell

16x12"

Size of compensating ring

40"x30"x1 3/16"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

3'-4 1/2"

Length of plain part

top

6-6"

Thickness of plates

crown

13"

Description of longitudinal joint

welded

No. of strengthening rings

1

bottom

5-10"

bottom

16"

Back

23"

Top

16"

Bottom

16"

Working pressure of furnace by the rules

206

Combustion chamber plates: Material

S

Thickness: Sides

11/16"

Back

23/32"

Top

11/16"

Bottom

11/16"

Pitch of stays to ditto: Sides

9 3/4"x7 3/4"

Back

9 5/8"x8 1/2"

Top

9 1/8"x8 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

208

Material of stays

S

Diameter at smallest part

2.066"

Area supported by each stay

81.750"

Working pressure by rules

215

End plates in steam space:

Material

S

Thickness

1 5/32"

Pitch of stays

17 3/4"x17 3/4"

How are stays secured

double nuts

Working pressure by rules

201

Material of stays

S

Diameter at smallest part

7-26"

Area supported by each stay

280 sq ft

Working pressure by rules

269

Material of Front plates at bottom

S

Thickness

1"

Material of Lower back plate

S

Thickness

29/32"

Greatest pitch of stays

14 1/2"

Working pressure of plate by rules

202

Diameter of tubes

3 1/2"

Pitch of tubes

5"x4 3/4"

Material of tube plates

S

Thickness: Front

1"

Back

27/32"

Mean pitch of stays

9 3/4"

Pitch across wide water spaces

13 3/4"

Working pressures by rules

202

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

1 3/4" x 10"

Length as per rule

36"

Distance apart

9"

Number and pitch of stays in each

3-8 1/2"

Working pressure by rules

209

Superheater or Steam chest; how connected to boiler

yes

Can the superheater be shut off and the boiler worked

separately

yes

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:—

Two top end bolts & nuts, two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of feed, bilge & air pump valves, one main & one donkey check valve, a quantity of bolts & nuts & iron of various sizes.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

W. H. H. H.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1914: - Aug 28 Sep 29. per J. H. Oct 16. 20. 23. 27. 29. Nov 11. 24. 28. Dec 1. 8. 11. 15. 18. 22. 24
During erection on board vessel - - 29. 1915: - Jan 2. 7. 11. 15. 21. 27. Feb 2. 10. 18. 23. Mar 1. 5. 9. 12. 18. 22. 26. 29. Apr 1. 7. 8. 12. 22
Total No. of visits 46

Is the approved plan of main boiler forwarded herewith

yes ✓

“ “ “ donkey “ “ “ ✓

Dates of Examination of principal parts—Cylinders 12-3-15 Slides 22-3-15 Covers 12-3-15 Pistons 18-3-15 Rods 1-4-15

Connecting rods 22-3-15 Crank shaft 29-3-15 Thrust shaft 8-4-15 Tunnel shafts ✓ Screw shaft 27-10-14 Propeller 27-10-14

Stern tube 27-10-14 Steam pipes tested 26-4-15 Engine and boiler seatings 29-10-14 Engines holding down bolts 26-4-15

Completion of pumping arrangements 20-5-15 Boilers fixed 26-4-15 Engines tried under steam 1-5-15

Main boiler safety valves adjusted 1-5-15

Thickness of adjusting washers

7/16 P & S.

Material of Crank shaft Steel Identification Mark on Do. 29-3-15

Material of Thrust shaft Steel Identification Mark on Do. 29-3-15

Material of Tunnel shafts ✓ Identification Marks on Do. ✓

Material of Screw shafts Iron Identification Marks on Do. 13-5-15

Material of Steam Pipes S.D. Copper ✓

Test pressure 400 lbs per sq. inch ✓

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 Thomas Stratten ✓

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

The machinery of this vessel has been constructed under special survey in accordance with the approved plans, & the rules of this Society; the materials & workmanship are good, the boiler & steam pipes have been tested as above by hydraulic pressure & found sound & good. The machinery has been properly fitted & secured on board, & on completion tried under steam & found satisfactory. The safety valves have been adjusted under steam & tested for accumulation, which did not exceed 207 lbs.

In my opinion the vessel is eligible for the record + LMC 5, 15

It is submitted that
this vessel is eligible for
THE RECORD + LMC 5. 15.

The amount of Entry Fee ... £ 1 : 0 : 0 When applied for,
Special ... £ 13 : 10 : 0 12-6-1915
Donkey Boiler Fee ... £ : : : When received,
Travelling Expenses (if any) £ : 2 : - 30/6/1915

Committee's Minute FRI. JUN. 18. 1915

Assigned

+ LMC 5. 15

P. Fitzgerald.

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



© 2020

Lloyd's Register
Foundation