

REPORT ON MACHINERY.

No. 31399

Date of writing Report

19

When handed in at Local Office

24/10/19 Port of Hull.

Received at London Office

SAT. OCT. 25. 1919

No. in Survey held at Hull.

Date, First Survey Dec 5/18 Last Survey Oct. 15 1919.

Reg. Book.

on the SS. "TENEDOS" late "Dominick Addison" (No. 412)

(Number of Visits 42)

Tons Gross 290

Net 127

Master

Built at Beverley

By whom built Cook, Welton & Gemmell Ltd

When built 1919

Engines made at Hull

By whom made Amos & Smith Ltd (No. 3069) when made 1919.

Boilers made at Hull

By whom made Amos & Smith Ltd (No. 3068) when made 1919.

Registered Horse Power

Owners Zucker, Zippett & Co. Ltd

Port belonging to Cardiff.

Nom. Horse Power as per Section 28 87 86

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 12½"-21" 435" Length of Stroke 26"

Revs. per minute 110.

Dia. of Screw shaft 7.57" as per rule 7.5" as fitted 7.5"

Material of screw shaft 7.5"

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight

n the propeller boss If the liner is in more than one length are the joints burned

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

If two

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

Length of stern bush

Dia. of Tunnel shaft as per rule 6.58" as fitted 6.58"

Dia. of Crank shaft journals as per rule 6.91" as fitted 6.91"

Dia. of Crank pin 7½"

Size of Crank webs 14" x 4½"

Dia. of thrust shaft under

collars 7½"

Dia. of screw 9'-6"

Pitch of Screw 11'-1½"

No. of Blades 4

State whether moveable no

Total surface 35.5 sq ft

No. of Feed pumps one Diameter of ditto 2¾" Stroke 12"

Can one be overhauled while the other is at work

No. of Bilge pumps one Diameter of ditto 2¾" Stroke 12"

Can one be overhauled while the other is at work

No. of Donkey Engines one & bilge ejector

Sizes of Pumps 6" x 4" x 6"

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

In Engine Room One 2" direct for, one 2" aft, one 2" for, 2 ejectors

In Holds, &c. One 2" from forehold, one 2" from

slushwell, 2" ejector from slushwell

No. of Bilge Injections one sizes 3½" Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size 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

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 Forward 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

OILERS, &c.—(Letter for record S)

S

Manufacturers of Steel Port Talbot Steel Co. Ltd—Port Talbot

Total Heating Surface of Boilers 1590 sq ft

Is Forced Draft fitted

no

No. and Description of Boilers one single ended.

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 31/7/19

No. of Certificate 3379

Can each boiler be worked separately

Yes

Area of fire grate in each boiler 48.75 sq ft

No. and Description of Safety Valves to

each boiler two spring loaded

Area of each valve 4.9 sq ft

Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 11"

INT. dia. of boilers 162"

Length 10'-6½"

Material of shell plates steel.

Thickness 13½"

Range of tensile strength 28/32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams double

long. seams T.R.D.B.S.

Diameter of rivet holes in long. seams 13½"

Pitch of rivets 8"

Lap of plates on

width of butt straps 17"

Per centages of strength of longitudinal joint

rivets 89.3

plate 85.5

Working pressure of shell by rules 180 lbs

Size of manhole in shell 16" x 12"

Size of compensating ring 9" x 13½"

No. and Description of Furnaces in each boiler 3 plain

Material steel

Outside diameter 40 7/8"

Length of plain part top 8½" bottom 7½"

Thickness of plates crown 25/32" bottom 25/32"

Description of longitudinal joint welded

No. of strengthening rings

Yes

Working pressure of furnace by the rules 188

Combustion chamber plates: Material steel

Thickness: Sides 1/16"

Back 3/32"

Top 1/16"

Bottom 7/8"

Pitch of stays to ditto: Sides 9½" x 9 3/8"

Back 9" x 9"

Pitch of stays to ditto: Sides 9½" x 9 3/8"

Back 9" x 9"

Top 9½" x 9 1/2"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 182

Material of stays steel

Area at smallest part 2.07 sq ft

Area supported by each stay 90.25 sq ft

Working pressure by rules 206

End plates in steam space:

Material steel

Thickness 1 1/16"

Pitch of stays 17 3/8" x 17"

How are stays secured DN4W

Working pressure by rules 181

Material of stays steel

Area at smallest part 6.10 sq ft

Area supported by each stay 295 sq ft

Working pressure by rules 215

Material of Front plates at bottom steel

Thickness 31/32"

Material of Lower back plate steel

Thickness 15/16"

Greatest pitch of stays 14" x 9"

Working pressure of plate by rules 219

Diameter of tubes 3½"

Pitch of tubes 5" x 4 3/4"

Material of tube plates steel

Thickness: Front 31/32"

Back 7/8"

Mean pitch of stays 10"

Pitch across wide water spaces 14"

Working pressures by rules 184 lbs

Girders to Chamber tops: Material steel

Depth and

thickness of girder at centre 8½" x 13¼"

Length as per rule 32"

Distance apart 9½"

Number and pitch of stays in each

two 9½"

Working pressure by rules 197

Steam dome: description of joint to shell

Yes

% 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

Lloyd's Register

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015026-015027-0046

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:—Two top & two bottom end bolts & nuts, one set of coupling bolts, 2 main bearing bolts & nuts, one set each of Air Feed & Bilge Pump Valves, 6 junk ring studs & nuts, 3 condenser tubes, 3 escape valve springs, 3 boiler tubes, 2 spare valves for donkey pump, a quantity of assorted bolts & nuts, and iron of various sizes.

The foregoing is a correct description,

For AMOS & SMITH LTD.

A. J. Robinson
SECRETARY.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918. Dec. 5. 14. 20. 1919. Jan 3. 14. 20. March. 13. 24. 31. Apr. 3. 10. 16 May 3. 10. 12. 27.
During erection on board vessel -- Jun 6. 14. July 2. 3. 16. 23. 30 Aug 2. 14. 16. 18. 23. 25. 28. 29. Sept 1. 6. 10. 16. 17. 18. 19. 26. 30
Total No. of visits 6 & 6. 15. 42.

Is the approved plan of main boiler forwarded herewith no

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 17/6/19 Slides 3/5/19 Covers 8/4/19 Pistons 14/1/19 Rods 17/6/19.

Connecting rods 17/6/19 Crank shaft 3/7/19 Thrust shaft 3/7/19 Tunnel shafts ✓ Screw shaft ✓ Propeller 3/1/19

Stern tube 24/12/18 Steam pipes tested 15/9/19. Engine and boiler seatings 1/9/19. Engines holding down bolts 6/9/19

Completion of pumping arrangements 15/10/19 Boilers fixed 6/9/19 Engines tried under steam 15/10/19.

Completion of fitting sea connections 31/3/19 Stern tube Fitted under B.C. Screw shaft and propeller Fitted under B.C.

Main boiler safety valves adjusted 18/9/19 Thickness of adjusting washers $P \frac{5}{16}$ $S \frac{7}{16}$

Material of Crank shaft steel Identification Mark on Do. 2356 JH Material of Thrust shaft iron Identification Mark on Do. 2357 JH

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts steel Identification Marks on Do. BC 4782 W.D.C. 21/11/18

Material of Steam Pipes Steel (solid drawn) Test pressure 540 lbs/sq in

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 no. If so, state name of vessel ✓

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 the Society. The materials & workmanship are good. The boiler and steam pipe have been tested as above & found sound & good. The machinery has been properly fitted & secured on board the vessel & on completion was tested at full power for two hours as required by the Admiralty & found satisfactory. The safety valves have been adjusted under steam & accumulation did not exceed 9 lbs.

In my opinion the vessel is eligible for the record + LMC 10, 19

It is submitted that
this vessel is eligible for
THE RECORD + LMC 10. 19.

The amount of Entry Fee ... £ 2 : 0 : 0 When applied for,

Special ... £ 26 : 2 : 0 24/10/19

Donkey Boiler Fee ... £ : : : When received,

Travelling Expenses (if any) £ : : : 27. 10 19. 19

Committee's Minute TUE. 26 OCT. 1919

Assigned + LMC 10. 19

W. N. Stone

Engineer Surveyor to Lloyd's Register of Shipping.



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