

REPORT ON MACHINERY

No. 28075

Received at London Office 20 APR 1921

Date of writing Report 18-4-21 When handed in at Local Office 19-4-21 Port of SUNDERLAND.

Date, First Survey 22 Aug 19 Last Survey 14 April 21

Survey held at SUNDERLAND. on the Steer S.S. TIDAL.

Built at Lowestoft By whom built Messrs. Colby Bros. Ltd. Tons Gross Net When built 1921

Engines made at Sunderland By whom made Messrs. Macboll and Pollock, Ltd (N° 313) When made 1921

Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted No.

Description of Engines Triple expansion. No. of Cylinders 3 No. of Cranks 3

Length of Stroke 24" Revs. per minute 95 Dia. of Screw shaft as per rule 8.4" Material of screw shaft Steel

Length of stern bush 2-10 1/2" Dia. of Crank pin 7 5/8" Size of Crank webs 14 1/4 x 4 3/8" Dia. of thrust shaft under bars 7 5/8"

No. of Blades 4 State whether moveable No Total surface 41.2 sq ft

Can one be overhauled while the other is at work Yes

No. and size of Suctions connected to both Bilge and Donkey pumps In Holds, &c. 2 @ 2" in main hold.

Is a separate Donkey Suction fitted in Engine room & size Yes; 2"

Are the Discharge Pipes above or below the deep water line Above

How are they protected Timber boards

Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

Manufacturers of Steel John Spencer & Sons, Ltd.

No. and Description of Boilers One S.E. Marine type

Area of fire grate in each boiler 58.26 sq ft

Pressure to which they are adjusted 185

Are the shell plates welded or flanged No

Working pressure of shell by rules 180.2

Description of Furnaces in each boiler 3, plain

Working pressure by rules 185

Working pressure by rules 183

Working pressure of plate by rules 196

Working pressures by rules 182.4

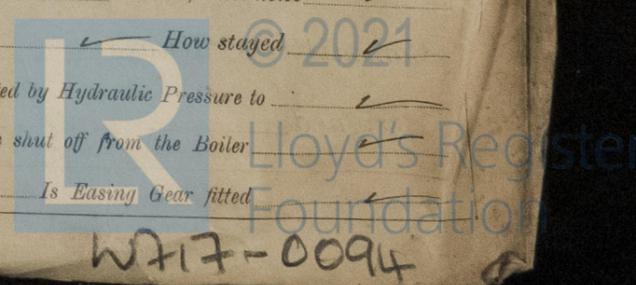
Working pressure by rules 187

Working pressure of shell by rules

Working pressure by rules 183-8

Working pressure by rules 185

Working pressure by rules 187



W717-0094

IS A DONKEY BOILER FITTED? *Yes*

If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied:— *Two connecting rod top + bottom end bolts + nuts, two main bearing bolts + nuts, one set of coupling bolts + nuts, one set of feed + bilge pump valves; bolts, nuts, + iron of various sizes; one propeller.*

The foregoing is a correct description,
MACCOLL & POLLOCK, LTD.

J. Richardson
Director

Manufacturer.

Dates of Survey while building: During progress of work in shops - - - *1919 Aug 22 Sep 8. 22 Oct 1. 14. 22 Nov 2. 19 Dec 5. 18 Jan 7. 21. 29 Mar 11. 23. 26*
During erection on board vessel - - - *Apr. 14. 27. 29 May 14. 31 Jun 8. 21. 29 Jul 13. 28 Aug 11. 20 Oct 6. Mar 2. 4. 7. 9. 14. 16. 19*
Total No. of visits *23. 30 Apr. 7. 12. 14.*

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

(43 + " " " donkey " " " *Yes*

Dates of Examination of principal parts—Cylinders *23-3-20* Slides *29-4-20* Covers *3-11-20* Pistons *28-7-20* Rods *3-11-20*

Connecting rods *23-3-20* Crank shaft *1-8-19* Thrust shaft *28-10-19* Tunnel shafts *LWT* Screw shaft *24-10-19* Propeller *6-10-20*

Stern tube *14-4-20* Steam pipes tested *14-3-21* Engine and boiler seatings *LWT* Engines holding down bolts *16-3-21*

Completion of pumping arrangements *7-4-21* Boilers fixed *16-3-21* Engines tried under steam *23-3-21*

Completion of fitting sea connections *LWT* Stern tube *2-3-21* Screw shaft and propeller *4-3-21*

Main boiler safety valves adjusted *23-3-21* Thickness of adjusting washers *P. 3/8, 3/8*

Material of Crank shaft *Steel* Identification Mark on Do. *4968 G.R.E.* Material of Thrust shaft *Steel* Identification Mark on Do. *867 J.H.M.*

Material of Tunnel shafts *LWT* Identification Marks on Do. *LWT* Material of Screw shafts *Steel* Identification Marks on Do. *3265 M.*

Material of Steam Pipes *Solid drawn Copper* Test pressure *400 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 *No* If so, state name of vessel *✓*

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

The Materials + Workmanship are good.

The Machinery has been constructed under special survey, and is eligible in my opinion

for Classification and the record. ✕ LMC 4, 21

It is submitted that this vessel is eligible for THE RECORD. + LMC. 4. 21. CL

Roll 2/3/21 ARR

SUNDERLAND.

Certificate (if required) to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ *3* :
Special ... £ *25* : *5* } When applied for, *19 APR 1921*
Donkey Boiler Fee ... £ : }
Travelling Expenses (if any) £ : } When received, *2.5.21*

Ed. H. Potter
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned *+ L.M.C. 4. 21*
C.L.