

REPORT ON MACHINERY.

No. 27855

Received at London Office

SAT. JUL 3 1920

Writing Report 24-6-1920 When handed in at Local Office 25-6-1920 Port of SUNDERLAND

Survey held at Sunderland Date, First Survey 11 June 1920 Last Survey 15 June 1920
 on the Machinery of the new steel S.S. FLASHLIGHT

J. Walker Built at Sunderland By whom built S. P. Austin & Son, Ltd. (No. 29) When built 1920-6

made at Sunderland By whom made Messrs. Richardson Westgarth & Co. Ltd. (No. 2129) when made 1920

made at do By whom made do when made 1920

red Horse Power 117 Owners Flashlight & Co. Ltd. Port belonging to London

orse Power as per Section 28 117 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

VES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3

Cylinders 16, 24, 44 Length of Stroke 30 Revs. per minute 80 Dia. of Screw shaft 9.2 Material of Iron

crew shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

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

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two

are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 3-2

Tunnel shaft as per rule 8.0 Dia. of Crank shaft journals as per rule 8.4 Dia. of Crank pin 8.3 Size of Crank webs 5 1/2 x 16 1/4 Dia. of thrust shaft under

8.3 Dia. of screw 11-6 Pitch of Screw 13-6 No. of Blades 4 State whether moveable No Total surface 44

Feed pumps 2 Diameter of ditto 2 1/2 Stroke 16 Can one be overhauled while the other is at work Yes

Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 16 Can one be overhauled while the other is at work Yes

Donkey Engines 3 Sizes of Pumps 9 x 11 x 10, 4 1/2 x 3 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps

ine Room 2 @ 3 In Holds, &c. Fore Hold 2 @ 3, Main Hold 2 @ 3

Bilge Injections 1 sizes 4 1/2 Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size Yes, 3 1/2

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

connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

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

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

pipes are carried through the bunkers None How are they protected Yes

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Machinery aft.

ERS, &c.—(Letter for record S) Manufacturers of Steel John Spencer & Sons, Ltd. 15B

Heating Surface of Boilers 1822 Is Forced Draft fitted No No. and Description of Boilers One cylindrical S.E. Multitubular

ing Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 3-11-19 No. of Certificate 3623

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 bolts, one set of Coupling bolts, one set of feed & bilge pump valves, assorted iron, nuts of various sizes, one propeller.

The foregoing is a correct description,
FOR RICHARDSONS, WESTGARTH & CO., LTD

Richard S. Russell

ASSISTANT MANAGER

Manufacturer.

Dates of Survey while building

During progress of work in shops --
During erection on board vessel --
Total No. of visits

1919. June 10, 17, 24, 25, Aug. 1, 10, 22, 30, Sep. 8, 24, Oct. 3, 16, 24, 31, Nov. 28, 30, 31, Dec. 15, 18, 20, 22, 24, 26, 28, 30, Jan. 16, 24, Feb. 4, 17, Apr. 10, 25, 27, 30, May 9, 4, 6, 11, 12, 20, 27, June 1, 3, 7, 15, (46)

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 16-10-19 Slides 8-11-19 Covers 8-11-19 Pistons 16-10-19 Rods 16-10-19

Connecting rods 24-10-19 Crank shaft 1-9-19 Thrust shaft 8-9-19 Tunnel shafts Nil Screw shaft 28-4-20 Propeller 28-4-20

Stern tube 29-4-20 Steam pipes tested 6-5-20, 12-5-20 Engine and boiler seatings 3-5-20 Engines holding down bolts 19-4-20

Completion of pumping arrangements 7-6-20 Boilers fixed 11-5-20 Engines tried under steam 20-5-20

Completion of fitting sea connections 3-5-20 Stern tube 30-4-20 Screw shaft and propeller 6-5-20

Main boiler safety valves adjusted 20-5-20 Thickness of adjusting washers Port- 3/8", Starboard 13/32"

Material of Crank shaft Steel Identification Mark on Do. 6116AB Material of Thrust shaft Steel Identification Mark on Do. 21

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Iron Identification Marks on Do. 21

Material of Steam Pipes Copper Test pressure 400 lbs. sq. in.

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 and Workmanship are good
The Machinery has been constructed under special survey and is eligible in my opinion for Classification, and the record LMC 6, 20

SUNDERLAND

Certificate (if required) to be sent to

The amount of Entry Fee £ 2 : 0 : 0
Special £ 17 : 11 : 0
Donkey Boiler Fee £ : :
Travelling Expenses (if any) £ : :
Committee's Minute
Assigned

When applied for,

When received,

21/7/20

FRI. JUL. 9 1920

+ LMC 6 : 20

It is submitted that
this vessel is eligible for
THE RECORD + LMC 6. 20.

J.W.
6/7/20.

Ed. W. Butler
Engineer Surveyor to Lloyd's Register of Shipping

MACHINERY GEAR
WRITTEN



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Foundation