

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

16 SEP 1927

Date of writing Report

When handed in at Local Office

5 SEP. 1927

Port of, *Sunderland.*

No. in Survey held at *Sunderland.*
Reg. Book.

Date, First Survey *9 Feb '27* Last Survey *1st Sept. 1927*

on the

S. S. "JONES LEIGH"

(Number of Visits *45*)

Built at *Sunderland* By whom built *Robert Thompson & Sons Ltd*

Yard No. *327*

Tons { Gross *5205*
Net *3122*

Engines made at *Sunderland*

By whom made *Richardson & Co. Ltd*

Engine No. *2192*

When built *1927*

Boilers made at *Hartlepool*

By whom made *Do*

Boiler No. *2192*

when made *1927*

Registered Horse Power

Owners *Totten Steam Navigation Co. Ltd.* Port belonging to *London.*

Nom. Horse Power as per Rule *570*

Is Refrigerating Machinery fitted for cargo purposes *No*

Is Electric Light fitted *Yes*

ENGINES, &c.—Description of Engines

Triple expansion.

Dia. of Cylinders *27 45 75* Length of Stroke *57* Revs. per minute *70* No. of Cylinders *3* No. of Cranks *3*

Dia. of Crank shaft journals *as per rule 14.196* Dia. of Crank pin *15* Crank webs *Mid. length breadth 22 5/8* Thickness parallel to axis *9 3/8*

Diameter of Thrust shaft under collars *as per rule 14.196* Diameter of Tunnel shaft *as per rule 13.52* Diameter of Screw shaft *as per rule 15.02* 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 watertight in the propeller boss *Yes*

If the liner is in more than one length are the joints burned *No* If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive *Yes*

If two liners are fitted, is the shaft lapped or protected between the liners *No* Is an approved appliance fitted at the after end of the shaft to permit

of it being efficiently lubricated *Yes* Length of Stern Bush *5-2 1/2* Diameter of Propeller *18-0*

Pitch of Propeller *17-6* No. of Blades *4* State whether Moveable *No* Total Surface *103* square feet.

No. of Feed Pumps fitted to the Main Engines *2* Diameter of ditto *4 1/2* Stroke *27* Can one be overhauled while the other is at work *Yes*

No. of Bilge Pumps fitted to the Main Engines *2* Diameter of ditto *4 1/2* Stroke *27* Can one be overhauled while the other is at work *Yes*

Total number and size of power driven Feed and Bilge Auxiliary Pumps *Pair Weirs 10 1/2 x 8 x 22 & 12 9 x 11 x 10, 6 5 8 x 8 x 8*

No. and size of Pumps connected to the Main Bilge Line *12 9 x 11 x 10*

No. and size of Ballast Pumps *12 9 x 11 x 10* No. and size of Lubricating Oil Pumps, including Spare Pump *12 9 x 11 x 10*

Are two independent means arranged for circulating water through the Oil Cooler *Yes* No. and size of suction connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room *2 2 1/2 & 2 2 3 & 1 1/2 & 1 1/2 in Holds, &c. No 1, 2 2 3 No 2, 4 2 3 1/2*

No 2 2 3, 2 2 1/2 No 3, 2 2 3 No 4, 2 2 1/2 & 1 2 3 (HOLD WELL)

No. and size of Main Water Circulating Pump Bilge Suctions *12 9* No. and size of Donkey Pump Direct Suctions

the Engine Room Bilges *12 4 1/2* Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes *Yes*

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges *Yes*

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

Are they size 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 *On deep*

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*

How are they protected *Yes*

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

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one

compartment to another *Yes* Is the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Top platform*

MAIN BOILERS, &c.—(Letter for record *S.*) Total Heating Surface of Boilers *8491 1/2*

Forced Draft fitted *Yes* No. and Description of Boilers *3 SB. 3 cyl. Vertical* Working Pressure *180 lbs. per sq. in.*

IS A REPORT ON MAIN BOILERS NOW FORWARDED? *No*

IS A DONKEY BOILER FITTED? *No* If so, is a report now forwarded? *No*

PLANS. Are approved plans forwarded herewith for Shafting *Yes* Main Boilers *See HARTLEPOOL RPT.* Auxiliary Boilers *—* Donkey Boilers *—*

General Pumping Arrangements *Yes* Oil fuel Burning Piping Arrangements *Yes*

SHAFTING. State the articles supplied:— *2, connecting rod top end, 2 connecting rod*

bottom end, 2 main bearings, 1 set of coupling bolts & nuts, 1 set

of feed & bilge pump valves, a quantity of painted bolts & nuts &

of various sizes, 1 C. 1 Propeller, 1 tail end shaft, 1 main &

and feed check valve, 13 boiler tubes, 3 junk ring bolts & nuts,

2 condenser tubes.

The foregoing is a correct description,

For RICHARDSONS, WESTGARTH & Co. LIMITED

Manufacturer.



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MANAGER, SUNDERLAND WORKS.

W188-0136

Dates
of Survey
while
building

During progress of
work in shops - -

During erection on
board vessel - - -

Total No. of visits

1927. Feb. 9, 11, 18, 24, 25. Mar. 1, 2, 3, 8, 14, 18, 22, 25. Apr. 2, 4, 6, 12, 20, 25, 27. May. 2, 5, 9, 12.
17, 19, 25, 26. June 10, 14, 21, 24, 27. July 12, 20, 22, 26, 28. Aug. 4, 5, 8, 10, 11, 26. Sept. 1.

45

Dates of Examination of principal parts - Cylinders

Covers

Connecting rods

Tunnel shafts

Stern tube

Completion of pumping arrangements

Completion of fitting sea connections

Main boiler safety valves adjusted

Material of Crank shaft

Material of Thrust shaft

Material of Tunnel shafts

Material of Screw shafts

Material of Steam Pipes

Is an installation fitted for burning oil fuel

Have the requirements of the Rules for carrying and burning oil fuel been complied with

Is this machinery duplicate of a previous case

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

The engines & boilers of this vessel have been built under special survey & the materials & workmanship are good.

On completion the machinery was tried under full working conditions.

The machinery throughout is now in a good & efficient condition & eligible in my opinion to have the notation ~~FF~~ LMC-9-27 marked in Red in the British Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 9.27. FD. CL.

SUNDERLAND.

Certificate to be sent to

The amount of Entry Fee

2/ Northpool

3/ Special

3/5 Sunderland

Donkey Boiler Fee

Travelling Expenses (if any)

£ 6-0-0

£ 41-8-0

£ 62-2-0

£ 103-10-0

£

When applied for,

2 SEP. 1927

19

When received,

20.9.27

Committee's Minute

Assigned

FRL 16 SEP 1927

thurs 9.27

FD CL.

CERTIFICATE WRITTEN

Harbottle.

Engineer Surveyor to Lloyd's Register of Shipping.



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