

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

21 SEP 1927

Writing Report 9/8/27 When handed in at Local Office 1027 Port of Greenock

Survey held at Greenock Date, First Survey 11th July 1924 Last Survey 13th Sept 1924
 on the T/S Tug "Lakej" (Number of Visits 20) Tons { Gross 283
 at Greenock By whom built Harland & Wolff Ltd Yard No. 796 Net 92
 es made at Belfast By whom made ditto Engine No. 796 When built 1927
 s made at ditto By whom made ditto Boiler No. 796 when made 1927

Rated Horse Power _____ Owners P & O Steam Nav Co Ltd Port belonging to Aden

Horse Power as per Rule 145 ✓ Is Refrigerating Machinery fitted for cargo purposes NO Is Electric Light fitted YES

INES, &c.—Description of Engines Triples Behaviour 2 sets
 of Cylinders 35-235-36 Length of Stroke 27 Revs. per minute 120 No. of Cylinders 6 No. of Cranks 6
 of Crank shaft journals as per rule _____ Dia. of Crank pin _____ Crank webs _____ Mid. length breadth _____ Thickness parallel to axis _____
 as fitted _____ as fitted _____ Mid. length thickness _____ shrunk _____ Thickness around eye-hole _____

eter of Thrust shaft under collars as per rule _____ Diameter of Tunnel shaft as per rule _____ Diameter of Screw shaft as per rule _____ Is the Screw shaft as fitted _____

with a continuous liner the whole length of the stern tube Is the after end of the liner made watertight in the propeller boss _____
 e liner is in more than one length are the joints burned _____ If the liner does not fit tightly at the part _____

en the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive _____
 o liners are fitted, is the shaft lapped or protected between the liners _____ Is an approved appliance fitted at the after end of the shaft to permit _____

being efficiently lubricated Length of Stern Bush _____ Diameter of Propeller _____
 h of Propeller _____ No. of Blades _____ State whether Moveable _____ Total Surface _____ square feet.

of Feed Pumps fitted to the Main Engines _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 of Bilge Pumps fitted to the Main Engines _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

al number and size of power driven Feed and Bilge Auxiliary Pumps _____
 and size of Pumps connected to the Main Bilge _____
 and size of Ballast Pumps _____ No. and size of Lubricating Oil Pumps, including Spare Pump _____

e two independent means arranged for circulating water through the Oil Cooler _____ No. and size of suction connected to both Main Bilge Pumps and Auxiliary _____
 lge Pumps;—In Engine and _____ Room _____ and in Holds, &c. _____

No. and size of Main Water Circulating Pump Bilge Suctions one 6" ✓ No. and size of Donkey Pump Direct Suctions _____
 the Engine Room Bilges one 2 1/2" ✓ Are all the Bilge Suction Pipes in holds and _____ fitted with strum-boxes yes ✓
 re 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 ✓
 re all connections with the sea direct on the skin of the ship yes ✓ Are they Valves or Cocks both ✓
 re 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 ✓
 re 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 ✓
 That Pipes are carried through the bunkers NONE ✓ How are they protected yes ✓
 re all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes ✓
 s 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 None ✓ Is it fitted with a watertight door — ✓ worked from — ✓

AIN BOILERS, &c.—(Letter for record S ✓) Total Heating Surface of Boilers 2470 ✓
 Is Forced Draft fitted yes ✓ No. and Description of Boilers 2 Single ended ✓ Working Pressure 180 ✓

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes ✓ BELFAST RPT N^o 9441.
 IS A DONKEY BOILER FITTED? no ✓ If so, is a report now forwarded? _____

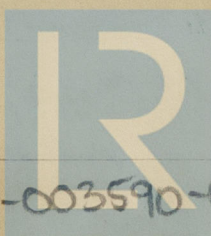
PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval) _____

General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements yes ✓

SPARE GEAR. State the articles supplied:— 2 Connecting Rod w/ End bolts & nuts,
(top & end) ditto for bottom end, 2 Main Bearing bolts one set
of coupling bolts, one set of feed, Bilge Pump valves, a
quantity of assorted bolts & nuts, & one of various sizes

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register
Foundation

003581-003590-0299

During progress of work in shops - -

Dates of Survey while building

During erection on board vessel - - -

(1924) July 11-12-21-23 Aug 1-8-12-13-15-16-19-21-23-24 Sept 2-3-5-6-8-13

Total No. of visits 20

Dates of Examination of principal parts—Cylinders ✓ Slides ✓

Covers ✓ Pistons ✓ Rods ✓

Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓

Tunnel shafts ✓ Screw shaft ✓ Propeller ✓

Stern tube ✓ Engine and boiler seatings 12-4-24 Engines holding down bolts 15-8-24

Completion of pumping arrangements 5-9-24 Boilers fixed 15-8-24 Engines tried under steam 13-9-24

Completion of fitting sea connections 12-4-24 Stern tubes 12-4-24 Screw shafts and propellers 16-4-24

Main boiler safety valves adjusted 5-9-24 Thickness of adjusting washers F $\frac{1}{32}$ A $\frac{1}{32}$ F $\frac{1}{32}$ A $\frac{3}{8}$

Material of Crank shaft ✓ Identification Mark on Do. ✓

Material of Thrust shaft ✓ Identification Mark on Do. ✓

Material of Tunnel shafts ✓ Identification Marks on Do. ✓

Material of Screw shafts ✓ Identification Marks on Do. ✓

Material of Steam Pipes Solid Drawn Copper ✓ Test pressure 400 lbs $\frac{5}{8}$ " Date of Test 24-8-24

Is an installation fitted for burning oil fuel *yes* Is the flash point of the oil to be used over 150°F. *yes*

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

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.)

These Engines, Boiler have been securely fitted on board. Tried under steam & found satisfactory. The Machinery is eligible in my opinion for the record of LMC. 9-27 as recommended in Belfast Reg. 90 941. + to have notation of Fitted for oil fuel 9-27 FP above 150°F

It is submitted that this vessel is eligible for THE RECORD. + LMC 9.27. FD. CL. Fitted for oil fuel 9.27. FP above 150°F.

JWD
21/9/27
APR

The amount of Entry Fee ... £ : :
Special 115/- ... £ 8 : 15 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :

When applied for, 16th Sept 1927
When received, 15.10.27
W. Gordon Macleod
Engineer Surveyor to Lloyd's Register of Shipping.

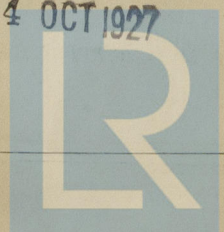
Committee's Minute GLASGOW 20 SEP 1927

Assigned + LMC 9.27

Fitted for oil fuel 9.27 FP above 150°F.

CERTIFICATE WRITTEN 21.9.27

TUES. 4 OCT 1927



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Lloyd's Register Foundation

Date of writing

No. in S Reg. Book.

Built at

Engines made

Boilers made

Registered

Nom. Horse

Trade for

ENGINES

Dia. of Cyl

Crank shaft

Intermediate

Tube Shafts

Bronze Line

propeller boss

If the liner does

If two liners

end of the tube

Propeller, dia

Feed Pumps

Bilge Pumps

Feed Pumps { No. How

Ballast Pump

Are two independ

Bilge Pumps;—

In Holds, &c.

Main Water

No. and size

Are the Bilge Su

Are all Sea Co

Are they fixed su

Are they each fit

What Pipes pass

What pipes pass

Are all Pipes, O

Is the arrange

compartment to a

MAIN BOI

Is Forced Dra

IS A REI

IS A DO

PLANS.

Superheaters

SPARE G

The fo