

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 30th Aug 1927 When handed in at Local Office

19

Port of Dundee.

No. in Survey held at Dundee
Reg. Book.

Date, First Survey 6-8-26. Last Survey 22-8-1927.

(Number of Visits)

Sur. 41762 on the

T.S.S. "MARLOWE"

Gross 812.83
Net 342.28.
Tons
When built 1927

Built at Dundee

By whom built

The Caledon S.B. & Eng^y. Co. Ltd

Yard No. 307

Engines made at Dundee

By whom made

The Caledon S.B. & Eng^y. Co. Ltd

Engine No. 507

when made 1927

Boilers made at Dundee

By whom made

The Caledon S.B. & Eng^y. Co. Ltd

Boiler No. 507

when made 1927

Registered Horse Power

Owners

The Mayor, Aldermen & Burgesses of
The Borough of Ballisoduff

Port belonging to Liverpool

Nom. Horse Power as per Rule 183

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes.

Trade for which Vessel is intended

Ferry Purpose

ENGINES, &c.—Description of Engines

Triple Expansion

Revs. per minute 139

Dia. of Cylinders

14 1/2" - 23 1/2" - 38"

Length of Stroke 24"

No. of Cylinders 6

No. of Cranks 6

Crank shaft, dia. of journals

as per Rule 6.97"

as fitted 7"

Crank pin dia. 7"

Crank webs

Mid. length breadth 13 1/4"

Thickness parallel to axis 5 1/2"

Intermediate Shafts, diameter

as per Rule 6.64"

as fitted 6 3/4"

Thrust shaft, diameter at collars

as per Rule 6.97"

as fitted 7"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 7.72"

as fitted 8 1/2"

Is the { tube } shaft fitted with a continuous liner { No

Bronze Liners, thickness in way of bushes

as per Rule

as fitted

Thickness between bushes

as per Rule

Is the after end of the liner made watertight in the

propeller boss

as fitted

as fitted

as fitted

as fitted

as fitted

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

as fitted

as fitted

as fitted

as fitted

as fitted

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

as fitted

as fitted

as fitted

as fitted

as fitted

Propeller, dia. 9'-0"

Pitch 11'-3"

No. of Blades 3

Material Bronze

whether Movable No

Total Developed Surface 22 sq. feet

Feed Pumps worked from the Main Engines, No.

None

Diameter

Stroke

Can one be overhauled while the other is at work

Yes

Bilge Pumps worked from the Main Engines, No.

None

Diameter

Stroke

Can one be overhauled while the other is at work

Yes

Feed Pumps { No. and size

Two 6" x 8 1/2" x 13"

Pumps connected to the

Main Bilge Line

No. and size

One 6" x 8 1/2" x 13" One 5" x 4 1/2" x 12"

How driven

Steam

How driven

Steam

Bilge ejector

None

Ballast Pumps, No. and size

One 6" x 8 1/2" x 13"

Lubricating Oil Pumps, including Spare Pump, No. and size

None

Suctions, connected to both Main Bilge Pumps and Auxiliary

None

Are two independent means arranged for circulating water through the

Oil Cooler

Yes

Suctions, connected to both Main Bilge Pumps and Auxiliary

None

None

Bilge Pumps;—In Engine and Boiler Room

Four 2 1/2"

In Holds, &c.

One 2" One 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size

One 6"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size

One 3"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

Yes

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 they fitted with Valves or Cocks

Both

Are the Overboard Discharges above or below the deep water line

Above

Are all Sea Connections fitted direct on the skin of the ship

Yes

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Yes

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

Yes

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Yes

How are they protected

Steel Covers

Have they been tested as per Rule

Yes

What Pipes pass through the bunkers

None

What pipes pass through the deep tanks

None

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 Shaft Tunnel watertight

None

Is it fitted with a watertight door

worked from

MAIN BOILERS, &c.—(Letter for record (T))

Total Heating Surface of Boilers

258

3244 sq. ft.

Working Pressure

180 lbs.

Is Forced Draft fitted

No

No. and Description of Boilers

2 Single Ended Return Tube

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

Yes

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

PLANS. Are approved plans forwarded herewith for Shafting

18-2-26. Main Boilers

8-5-26. Auxiliary Boilers

Superheaters

General Pumping Arrangements

11-10-26

Oil fuel Burning Piping Arrangements

None

None

SPARE GEAR. State the articles supplied:—

Propeller Shaft, Stem Bush, 12 Coupling Bolts, 2 Bottom end

Bolts & nuts, 2 Top End Bolts & nuts, 2 Main Bearing Bolts & nuts, 12 Piston Studs &

nuts, 1 Eccentric and Strap complete, 1 Set Valves for Main Feed Pumps, Air Pumps

Bucket with Rings, 12 Condenser Tubes, 100 Condenser Fanules, 20 Tubes for Main

Boilers, 6 Stay Tubes & nuts for Main Boilers, 1 Set U.S.A. Metallic Packing for

AP & MP Piston Rods, 5 Tube Stoppers for Main Boilers.

The foregoing is a correct description,

D. D. Duff

SECRETARY

Manufacturer.



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Lloyd's Register
Foundation

010137-010149-0211

1926 August 6, 10, 16, 18, 25 September 2, 7, 16, 20, 27 Oct 1, 18 November 3, 19, 12, 15, 24, 30.
 During progress of work in shops - - December 3, 8, 13, 15 1927 January 27, 31 February 1, 2, 9, 10, 11, 16, 17, 18, 21, 22, 25
 March 3, 4, 7, 8, 10, 11, 14, 18, 21, 24 April 1, 8, 9, 13, 21, 25, 28 May 3, 6, 11, 17, 19, 23, 25 June 1, 2, 13, 16, 20, 23
 During erection on board vessel - - July 4, 5, 8, 15 August 5, 19, 22, 23.
 Total No. of visits 73

Dates of Examination of principal parts—Cylinders 7-3-27 Slides 3-11-26 Covers 12-11-26
 Pistons 1-10-26 Piston Rods 21-3-27 Connecting rods 14-3-27
 Crank shaft P 6-5-27 S 25-4-27 Thrust shaft P 6-5-27 S 25-4-27 Intermediate shafts 13-6-27
 Tube shaft ✓ Screw shaft 13-6-27 Propeller 13-6-27
 Stern tube 20-6-27 Engine and boiler seatings 20-6-27 Engines holding down bolts 8-7-27
 Completion of fitting sea connections 26-6-27
 Completion of pumping arrangements 15-7-27 Boilers fixed 5-7-27 Engines tried under steam 19-8-27
 Main boiler safety valves adjusted 19-8-27 Thickness of adjusting washers all 2 3/4"
 Crank shaft material Steel Identification Mark P 6-5-27 H.Y.B. S 25-4-27 H.Y.B. Thrust shaft material Steel Identification Mark P 6-5-27 H.Y.B. S 25-4-27 H.Y.B.
 Intermediate shafts, material Steel Identification Marks 13-6-27 H.Y.B. Tube shaft, material ✓ Identification Mark ✓
 Screw shafts material Steel Identification Mark 13-6-27 H.Y.B. Steam Pipes, material Copper Test pressure 450 lbs. Date of Test 16-6-27
 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 the Rules for carrying and burning oil fuel been complied with ✓
 Is this machinery duplicate of a previous case Yes. If so, state name of vessel T.S.S. "WALLASEY"

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 Rules. The materials and workmanship are good. The machinery has been fitted onboard the vessel in an efficient manner. tried under working conditions and found satisfactory. It is eligible in my opinion to be classed +LMC 8-27-OG

It is submitted that this vessel is eligible for THE RECORD. +LMC 8-27 O.G.

J.S.T. 19/27

Jip

The amount of Entry Fee ... £ 3 : 0 : When applied for,
 Special ... £ 45 : 15 : 19
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 20-9-27

Glen. T. Thomas
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 16 MAR 1928

Committee's Minute FRI. 30 SEP 1927

Assigned No action

