

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

JUL -3 1940

Date of writing Report

19

When handed in at Local Office

2 JUL 1940

Port of

SUNDERLAND.

No. in Survey held at  
Reg. Book.

SUNDERLAND.

Date, First Survey 6<sup>th</sup> Feb

Last Survey 28 June 1940

(Number of Visits 85)

Gross 4898  
Tons Net 2750

Built at Sunderland

By whom built

J. L. Thompson &amp; Sons Ltd

Yard No. 599

When built 1940

Engines made at do.

By whom made

H. J. Marine Eng. Co. (1938)

Engine No. 2957

When made 1940

Boilers made at do.

By whom made do.

Boiler No. do.

When made do.

Registered Horse Power

Owners

Allan Line Ltd

Port belonging to

Sunderland

Nom. Horse Power as per Rule

365

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

Trade for which Vessel is intended

General

ENGINES, &amp;c.—Description of Engines Triple Expansion with poppet valves 92.5 h.p. 2000 r.p.m.

Dia. of Cylinders 23", 28", 65"

Length of Stroke 42"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals

as per Rule 12.85"

as fitted 13"

Crank pin dia. 13"

Crank webs

Mid. length breadth

shrunk

Thickness parallel to axis 8" x 8 1/8"

Intermediate Shafts, diameter

as per Rule 12.24"

as fitted 12 1/2"

Thrust shaft, diameter at collars

as per Rule 12.85"

as fitted 13"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 13 1/4"

as fitted 14 1/2"

Is the

tube

screw

shaft fitted with a continuous liner

yes

Bronze Liners, thickness in way of bushes

as per Rule 23/32"

as fitted 3/4"

Thickness between bushes

as per Rule 9/16"

as fitted 21/32"

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 junctions made by fusion through the whole thickness of the liner

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

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

no

If so, state type

Is an approved Oil Gland or other appliance fitted at the after end of the tube

Propeller, dia. 18'-0"

Pitch 18 1/4"

No. of Blades 4

Material Manganese

Br. whether Moveable

not

Total Developed Surface 113.5 sq. feet

Feed Pumps worked from the Main Engines, No. —

Diameter —

Stroke —

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 2

Diameter 3 1/2"

Stroke 1'-10 1/2"

Can one be overhauled while the other is at work

Feed Pumps

No. and size 2

8 1/2" x 6" x 18"

Pumps connected to the

No. and size 1.

9" x 11" x 10"

How driven

Steam

Main Bilge Line

How driven

Steam

Ballast Pumps, No. and size 1

9" x 11" x 10"

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

Are two independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room 2, 3" dia. in Eng. Rm.; 2, 3 1/2" dia. boiler room.

In Pump Room

In Holds, &amp;c. 2, 3" dia. in fore hold; 2, 3 1/2" dia. in fore main; 2, 2 1/2" dia.

in main hold 1 1/2"; 2, 3" dia. after main; 2, 3" dia. No. 5.; Turbine with 1, 3" dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1, 7" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size 1, 5" dia.; No. 2, 3" dia. Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

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

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

Are they fitted with Valves or Cocks

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

Are the Overboard Discharges above or below the deep water line

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

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

What Pipes pass through the bunkers

for not

How are they protected

bilge lines

What pipes pass through the deep tanks

No. 5 not

Have they been tested as per Rule

yes

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

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

yes

Is it fitted with a watertight door

yes

worked from above platform

MAIN BOILERS, &amp;c.—(Letter for record S)

Total Heating Surface of Boilers

3840 + 1235 sq. ft.

Which Boilers are fitted with Forced Draft

main

Which Boilers are fitted with Superheaters.

main

No. and Description of Boilers 2. S.B. &amp; 1. S.B. Aux.

Working Pressure

220 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

yes

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

Can the donkey boiler be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting

(If not state date of approval)

Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

one cast iron propeller.

one propeller shaft.

3 main &amp; 4 auxiliary check valve lids.

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.

The foregoing is a correct description.

J. M. Smith

RESIDENT MANAGER.

Manufacturer.



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Lloyd's Register  
Foundation
 If not, state whether, and when, one will be sent  
 Is a Report also sent on the Hull of the Ship?

NOTE.—The words which do not apply should be deleted.

50,1157. T. (MADE IN ENGLAND.)



1940. Feb. 6, 14, 15, 19, 20, 21, 26, 28. March 1, 4, 5, 7, 8, 12, 13, 15, 18, 19, 20, 21, 26, 27. April 1, 2, 4, 6, 8, 9, 12, 13, 15, 16, 17, 19, 22, 23, 24, 25, 26, 27, 29, 30. May 1, 2, 3, 4, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 25, 27, 28, 29, 30, 31. June 1, 3, 4, 5, 10, 12, 13, 14, 17, 18, 20, 21, 24, 26, 28

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of visits 85

Dates of Examination of principal parts—Cylinders 10/18/5/40 Slides 4/6/40 Covers 10/18/5/40

Pistons 1/8/5/40 Piston Rods 18/5/40 Connecting rods 1/6/40

Crank shaft 23/5/40 Thrust shaft 24/6/40 Intermediate shafts 17/5/40

Tube shaft — Screw shafts 13/17/5/40 Propeller 12/5/40

Stern tube 26/4/40 Engine and boiler seatings 15/3/40 Engines holding down bolts 12/6/40

Completion of fitting sea connections 9/4/40

Completion of pumping arrangements 24/6/40 Boilers fixed 12/6/40 Engines tried under steam 20/6/40

Main boiler safety valves adjusted 20/6/40 Thickness of adjusting washers Port 7/16" both; stbd 3/8" both, Aug '18

Crank shaft material Steel Identification Mark 2412/3 Thrust shaft material Steel Identification Mark 2450

Intermediate shafts, material Steel Identification Marks Tube shaft, material — Identification Mark —

Screw shaft, material Steel Identification Mark 2449 Steam Pipes, material Steel Test pressure 660 lb Date of Test 28.5.40

Is an installation fitted for burning oil fuel *Spare 2448* no Is the flash point of the oil to be used over 150°F. —

Have the requirements of the Rules for the use of oil as fuel been complied with —

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo no If so, have the requirements of the Rules been complied with —

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with not required

Is this machinery duplicate of a previous case no. If so, state name of vessel Argyle

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 approved plans, Secretary's Orders and the requirements of the Rules. Workmanship and materials are good. The machinery has been efficiently fitted on board and tried under working conditions at the quay wall and found satisfactory, and is eligible, in my opinion, for the

NOTATION + L.M.C. 6.A.O., 2.S.B. (Spt.) + 1. Aug. 220th, F.I. C.L.

L.R. Home

The amount of Entry Fee ... £ 5 : : When applied for, 2 JUL 1940

Special ... £ 79 : 15 : : When received, 9th July 1940 R.S. 10/4

Donkey Boiler Fee ... £ : : : : : 10/4

Travelling Expenses (if any) £ : : : : : 10/4

Committee's Minute

TUE 9 JUL 1940

Assigned

2 S.B. (Spt.) 22, C.L.  
1 Ann S.B. R.H.

Engineer Surveyor to Lloyd's Register of Shipping.



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