

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

13 NOV 1928

Received at London Office

Writing Report 19.9.28 When handed in at Local Office 28th Sept. 1928 Port of Greenock
 Survey held at Greenock Date, First Survey 12th March 1928 Last Survey 24th September 1928
 on the S/S "Libington Court" (Number of Visits 52)
 at Newcastle By whom built Armstrong Whitworth & Co. Ltd. Yard No. 1040 Tons Gross 6910
Greenock By whom made John Kincaid & Co. Engine No. 652 when built 1928
ditto By whom made ditto Boiler No. 652 when made 1928
 Horse Power _____ Owners _____ Port belonging to _____
 Horse Power as per Rule 544 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted _____
 for which Vessel is intended Forage

DESIGN, &c.—Description of Engines Triple Expansion Revs. per minute _____
 of Cylinders 24 Length of Stroke 51" No. of Cylinders 3 No. of Cranks 3
 as per Rule 14.196 Mid. length breadth _____ Thickness parallel to axis 9.16
 as fitted 14.12 Crank pin dia. 14.12 Crank webs _____ Mid. length thickness _____ Thickness around eye-hole 6.38
 Intermediate Shafts, diameter _____ as per Rule 13.5 Thrust shaft, diameter at collars _____ as per Rule 14.196
 as fitted 13.3/4 as fitted 14.12
 Main Shafts, diameter _____ as per Rule 15.1 Is the hub shaft fitted with a continuous liner { yes
 as fitted _____ as fitted 15.5/8 Is the screw shaft fitted with a continuous liner { _____
 Liners, thickness in way of bushes _____ as per Rule .76 Thickness between bushes _____ as per Rule .57 Is the after end of the liner made watertight in the
 as fitted _____ as fitted 13.16 as fitted 2.1/2
 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 no liners are fitted, is the shaft lapped or protected between the liners _____ Is an approved Oil Gland or other appliance fitted at the after
 of the tube shaft _____ Length of Bearing in Stern Bush next to and supporting propeller: 62.1/2
 Propeller, dia. 19.0 Pitch 14.3 No. of Blades 4 Material CS whether Moveable No Total Developed Surface 109 sq. feet
 Main Engines, No. 2 Diameter 4.1/2 Stroke 28 Can one be overhauled while the other is at work yes
 Auxiliary Engines, No. 2 Diameter 4.1/2 Stroke 28 Can one be overhauled while the other is at work yes
 Pumps connected to the Main Bilge Line { No. and size 10 + 12 + 12
 How driven Steam How driven Steam
 Lubricating Oil Pumps, including Spare Pump, No. and size _____
 Are there two independent means arranged for circulating water through the Oil Cooler _____
 Suctions, connected to both Main Bilge Pumps and Auxiliary
 Pumps;—In Engine and Boiler Room _____
 Folds, &c. _____

WATER CIRCULATING PUMP DIRECT BILGE SUCTIONS, No. and size 1. 8" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 and size 1. 5" 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 _____
 How are they protected _____
 Have they been tested as per Rule _____
 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 _____ Is the Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

IN BOILERS, &c.—(Letter for record R.) Total Heating Surface of Boilers 8601
 Forced Draft fitted yes No. and Description of Boilers 3 Single Ended Working Pressure 180
A REPORT ON MAIN BOILERS NOW FORWARDED? yes
A DONKEY BOILER FITTED? No If so, is a report now forwarded? _____
 Are approved plans forwarded herewith for Shafting Forwarded with 28.9.28 Main Boilers yes Auxiliary Boilers _____ Donkey Boilers _____
 General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

ARE GEAR. State the articles supplied:—

The foregoing is a correct description,
 FOR JOHN G. KINCAID & COY, LIMITED
W. Carter
 DIRECTOR

Manufacturer.



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 Foundation
 002659-002666-0205

[Handwritten signature]

Dates of Survey while building

During progress of work in shops - - (1928) Mar. 12-22 April 2-10-19-24 May 4-8-14-16-18-23-25-30-31 June 1-4-11-14-19-21-22-25-26 July 10-14-19-21-24 Aug. 1-3-6-8-10
 11-13-15-14-21-22-23-24-30 Sept 4-5-4-10-12-13-18-19-24

During erection on board vessel - - -

Total No. of visits 52

Dates of Examination of principal parts—Cylinders 30. 8. 28 Slides 12. 9. 28 Covers 30-8-28

Pistons 17. -8-28 Piston Rods 17. -8-28 Connecting rods 23-8-28

Crank shaft 22. 8-28 Thrust shaft 19. 9. 28 Intermediate shafts 24. 9. 28

Tube shaft 24. 8. 28 Screw shaft 11. 8. 28 Propeller 24. 7. 28

Stern tube 7. 9. 28 Engine and boiler seatings ✓ Engines holding down bolts

Completion of fitting sea connections ✓

Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓

Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓

Crank shaft material \$ Identification Mark LR 652 Thrust shaft material \$ Identification Mark 4545 WGM LR

Intermediate shafts, material \$ Identification Marks LR 4510, 451, 4512, 452 Tube shaft, material ✓ Identification Mark 4539, 2584, 450 WGM

Screw shaft, material \$ Identification Mark LR 4567 JD Steam Pipes, material ✓ Test pressure ✓ Date of Test -

Is an installation fitted for burning oil fuel ✓ 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 *S/S "Sturminster Court" No. 189*

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

These engines & boilers have been built under special survey in accordance with the approved plans & the workmanship & material are of good quality, they have now been shipped to Newcastle at which port they will be fitted on board. The machinery is eligible in my opinion to have the record of \otimes LMC with date, when fitted on board & tried under steam.

GREENOCK

Certificate to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 6 : : ✓ When applied for,
 Special ... 4/5. £ 82 : 19 : 28th SEPT. 1928.
 Newcastle Fee 1/5. £ 20 : 15 : :
 Travelling Expenses (if any) £ : : : When received,
 3. 10. 28

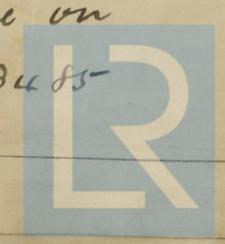
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 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 16 NOV 1928

Committee's Minute GLASGOW 2 - OCT 1928

Assigned *Deferred*

*See minute on
New Rpt 83485*



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Date of writing Report

No. in Survey Reg. Book

on the

Master

Engines made at

Boilers made at

Nominal Horse Power

MULTITUBULAR

Manufacturers of

Total Heating Surface

No. and Description

Tested by hydraulic

Area of Firegrate

Area of each set of

In case of donkey boiler

Smallest distance between

Smallest distance between

Largest internal diameter

Thickness 1 9/16

long, seams T R

Percentage of strength

Percentage of strength

Thickness of butt straps

Material

Length of plain part

Dimensions of stiffeners

End plates in steam chest

How are stays secured

Tube plates: Material

Mean pitch of stay

Girders to combustion chamber

at centre 10 + 3

in each 3 at

Tensile strength

Pitch of stays to ditto

Working pressure by

Thickness 15/16

Pitch of stays at water level

Working Pressure

Diameter { At body of stay or over threads

Working pressure by

Diameter { At turned off end or over threads