

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

8 SEP 1926

Date of writing Report 19 _____ When handed in at Local Office 19 _____ Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 28.5.26 Last Survey 30-6-1926
 Reg. Book. on the s/s "WAIPATA" (Number of Visits 4) Tons { Gross 2826 Net 1603

Built at Glasgow By whom built Napier & Miller Ltd Yard No. 258 When built 1926

Engines made at Greenock By whom made J. E. Kincaid Engine No. 631 when made 1926

Boilers made at Greenock By whom made J. E. Kincaid Boiler No. 631 when made 1926

Registered Horse Power _____ Owners Union S.S. Co. of New Zealand Port belonging to Wellington

Com. Horse Power as per Rule 417 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines Revs. per minute

Dia. of Cylinders _____ Length of Stroke _____ No. of Cylinders _____ No. of Cranks _____

Crank shaft, dia. of journals _____ as per Rule _____ Crank pin dia. _____ Crank webs _____ Mid. length breadth _____ Thickness parallel to axis _____
 as fitted _____ Mid. length thickness _____ shrunk _____ Thickness around eye-hole _____

Intermediate Shafts, diameter _____ as per Rule _____ Thrust shaft, diameter at collars _____ as per Rule _____
 as fitted _____ as fitted _____

Tube Shafts, diameter _____ as per Rule _____ Screw Shaft, diameter _____ as per Rule _____ Is the { tube } shaft fitted with a continuous liner {
 as fitted _____ as fitted _____ as fitted _____ screw _____

Bronze Liners, thickness in way of bushes _____ as per Rule _____ Thickness between bushes _____ as per Rule _____ Is the after end of the liner made watertight in the
 as fitted _____ as fitted _____ propeller boss _____ 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 _____ Is an approved Oil Gland or other appliance fitted at the after
 end of the tube shaft _____ Length of Bearing in Stern Bush next to and supporting propeller _____

Propeller, dia. _____ Pitch _____ No. of Blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ 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. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____

Feed Pumps { No. and size _____ Pumps connected to the { No. and size _____
 How driven _____ Main Bilge Line { How driven _____

Ballast Pumps, No. and size _____ 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 _____

In Holds, &c. _____

Main Water Circulating Pump Direct Bilge Suctions, No. and size _____ **Independent Power Pump Direct Suctions to the Engine Room Bilges,**
 No. and size _____ 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 are carried through the bunkers _____ How are they protected _____

What pipes pass through the deep tanks _____ 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 _____

MAIN BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers _____

Is Forced Draft fitted _____ No. and Description of Boilers _____ Working Pressure _____

IS A REPORT ON MAIN BOILERS NOW FORWARDED? _____

IS A DONKEY BOILER FITTED? _____ 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)

Superheaters _____ General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:— _____

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

011896-011904-0254

During progress of work in shops - - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts—Cylinders Slides Covers
 Pistons Piston Rods Connecting rods
 Crank shaft Thrust shaft Intermediate shafts
 Tube shaft Screw shaft Propeller
 Stern tube Engine and boiler seatings 25-5-26 Engines holding down bolts
 Completion of pumping arrangements Boilers fixed Engines tried under steam
 Main boiler safety valves adjusted Thickness of adjusting washers
 Crank shaft material Identification Mark Thrust shaft material Identification Mark
 Intermediate shafts, material Identification Marks Tube shaft, material Identification Mark
 Screw shaft, material Identification Mark 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 If so, state name of vessel

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

The stern tube, screw shaft* and propeller and the sea-cocks and valves satisfactorily fitted.

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 ... £	:	:	When applied for,
Special £	:	:	19
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19

L. C. Davis, J. S. Cairns
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 7 - SFP 1926

Assigned + L.M.C. 8.26.F.D.

only Rpt. N° 18599. J.B.