

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

18 SEP 1928

Received at London Office 19 SEP 1928

Date of writing Report

10

When handed in at Local Office

19

Port of

No. in Survey held at  
Reg. Book.

Wallsend-on-Tyne

Date, First Survey

8.12.27

Last Survey

11.9.1928

(Number of Visits 60)

on the

New Steel S/S Gaddington Court

Tons { Gross 5322  
Net 3258

Built at

Killingworth Quay

By whom built Northumberland S/S Co Ltd.

Yard No.

When built 1928

Engines made at

Wallsend

By whom made Wallsend Shipways &amp; Co Ltd.

Engine No. 846

when made 1928

Boilers made at

Wallsend

By whom made Wallsend Shipways &amp; Co Ltd.

Boiler No. 846

when made 1928

Registered Horse Power

Owners Court Line Ltd.

Port belonging to

Nom. Horse Power as per Rule

569

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

yes

Trade for which Vessel is intended

General Cargo, Foreign going.

## ENGINES, &amp;c.—Description of Engines

Triple expansion

Revs. per minute 42

Dia. of Cylinders

24" x 45" x 45"

Length of Stroke

51"

No. of Cylinders

3

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule 14.196

Crank pin dia.

14 5/8"

Crank webs

Mid. length breadth 21 1/2"

Mid. length thickness 9 1/2"

shrink

Thickness parallel to axis 9 1/2"

Thickness around eye-hole 6 3/4"

Intermediate Shafts, diameter

as per Rule 13.58"

as fitted 13 3/4"

Thrust shaft, diameter at collars

as per Rule 14.198

as fitted 14 1/2"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 15.105

as fitted 15 5/8"

Is the tube screw shaft fitted with a continuous liner

yes

Bronze Liners, thickness in way of bushes

as per Rule 14.61"

as fitted 13 1/2"

Thickness between bushes

as per Rule 14.61"

as fitted 13 1/2"

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

yes

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

yes

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

yes

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

end of the tube shaft

no

Length of Bearing in Stern Bush next to and supporting propeller

5'-6"

Propeller, dia.

19'-0"

Pitch

17'-3"

No. of Blades

4

Material

C. Iron

whether Moveable

no

Total Developed Surface

109

sq. feet

Feed Pumps worked from the Main Engines, No.

2

Diameter

4 1/2"

Stroke

26"

Can one be overhauled while the other is at work

yes

Bilge Pumps worked from the Main Engines, No.

2

Diameter

4 1/2"

Stroke

26"

Can one be overhauled while the other is at work

yes

Feed Pumps

No. and size

2 @ 8" x 10 1/2" x 22"

How driven

Steam

Pumps connected to the

Main Bilge Line

No. and size

2 @ 4 1/2" x 6"

How driven

Eng.

Steam

Ballast Pumps, No. and size

1 @ 10" x 12" x 12"

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

none

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

yes

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room

2 @ 3 1/2" in Eng. room

2 @ 3 1/2" in Blw. room

In Holds, &amp;c.

No 1 Hold 2 @ 3 1/2"

No 2 Hold 2 @ 3 1/2"

No 3 Hold 2 @ 3 1/2"

Bunkers 2 @ 3 1/2"

Main Water Circulating Pump

Direct Bilge Suctions, No. and size

1 @ 8" dia.

Independent Power Pump

Direct Suctions to the Engine Room Bilges,

No. and size

1 @ 5" dia.

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

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

yes

What Pipes pass through the bunkers

Bilge &amp; Ballast suction

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

yes

Is it fitted with a watertight door

yes

worked from

top platform

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

p(r))

Total Heating Surface of Boilers

8484 sq. ft.

Is Forced Draft fitted

yes

No. and Description of Boilers

Three single ended.

Working Pressure

180 lbs

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

yes

(If not state date of approval)

Superheaters

yes

General Pumping Arrangements

yes

Oil fuel Burning Piping Arrangements

yes

SPARE GEAR. State the articles supplied:—

Two each bolts &amp; nuts for top &amp; bottom ends &amp; main bearings. One set coupling bolts. One Propeller shaft complete. 2 sets of trap bolts &amp; nuts. 1 set feed &amp; bilge pip valves &amp; seats. Complete set of Breckwood &amp; Carlisle pump for pistons &amp; valves. 1 set of pistons &amp; valves. 5 escape valve springs. Various bolts &amp; nuts. Quantity of assorted bolts nuts &amp; iron. one propeller. (C1)

The foregoing is a correct description,

Manufacturer.

FOR THE WALLSEND SLIPWAY &amp; ENGINEERING CO. LIMITED.

Andrew Laing

DIRECTOR.

Lloyd's Register  
Foundation

008789-008745-0198

During progress of work in shops - - } 1927 Dec. 8. 14. 21. 23. 1928 JAN. 4. 17. FEB. 2. 7. 9. 14. 15. 20. 21. 28. MAR. 7. 8. 9. 12. 14. 16. 19. 21. 22. 23. 28. APR. 3. 4. 10. 11. 12. 13. 16. 18. 20. 24. 25. 27. 30. MAY. 1. 3. 4. 7. 8. 9. 10. 11. 14. 15. 22. 25. JUNE. 4. 11. 15. 18. 21. 22. JULY. 10. AUG. 29. 31. H. SEP. 11. Total No. of visits 60.

Dates of Examination of principal parts—Cylinders 11-4-28 Slides 18-4-28 Covers 28-3-28  
Pistons 24-4-28 Piston Rods 11-4-28 Connecting rods 3-4-28  
Crank shaft 14-3-28 Thrust shaft 22-3-28 Intermediate shafts 25-4-28  
Tube shaft ✓ Screw shaft 24-4-28 + 4-5-28 Propeller 10-5-28  
Stern tube 4-5-28 Engine and boiler seatings 25-4-28 Engines holding down bolts 15-4-28  
Completion of fitting sea connections 2-8-28  
Completion of pumping arrangements 5-9-28 Boilers fixed 5-9-28 Engines tried under steam 29-8-28  
Main boiler safety valves adjusted 29-8-28 Thickness of adjusting washers P.B. 14 5 1/16" CB 16 5 3/8" JB 16 5 3/8"  
Crank shaft material OH Steel Identification Mark 3493 WB Thrust shaft material OH Steel Identification Mark 211 WB  
Intermediate shafts, material OH Steel Identification Marks 439, 1244, 94, 98, 102, 105 all WB. Tube shaft, material ✓ Identification Mark 85-28 5  
Screw shaft, material OH Steel Identification Mark 1242, 1334, WB Steam Pipes, material P.J. Copper Test pressure 360 lbs Date of Test 16-4-28  
Is an installation fitted for burning oil fuel ho 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 ho If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)  
The Machinery of this vessel has been built under Special Survey, materials & workmanship good. Hydraulic tests satisfactory. The whole of the machinery is efficiently installed and fixed in the vessel and was tried under steam & found to be in good & safe working condition & eligible in my opinion to be classed and have records + L.M.C. 9-28  
Tail Shaft. C.L. Electric Light. in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 9.28 CL. FD.

W.A. 20/9/28.

W.A.

The amount of Entry Fee ... £ 6 : 0 0 : When applied for, 18 SEP 1928  
Special ... £ 103 : 9 0 :  
Donkey Boiler Fee ... £ ✓ :  
Travelling Expenses (if any) £ ✓ : 3.10.28

William Butcher.  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 28 SEP 1928

Assigned

+ L.M.C. 9:28

CERTIFICATE WRITTEN



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