

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 31271

Received at London Office

31 AUG 1933

Date of writing Report

19

When handed in at Local Office

30 AUG. 1933

Port of

SUNDERLAND

No. in Survey held at

Sunderland

Date, First Survey 28 Aug 1933

Last Survey 28 Aug 1933

Reg. Book.

on the

S/S "CORHAVEN"

(Number of Visits 36)

Built at

Sunderland

By whom built

S. P. Austin & Sons

Yard No. 328

Engines made at

Sunderland

By whom made

H. E. Mar. Eng. Co. Ltd.

Engine No. 2499

Gross 991

Tons

Net 532

When built 1933

Boilers made at

Sunderland

By whom made

H. E. Mar. Eng. Co. Ltd.

Boiler No. 2499

when made 1933

Registered Horse Power

Owners

Wm. Cory & Son Ltd.

Port belonging to London

Nom. Horse Power as per Rule 118

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines

Inverted triple expansion

Revs. per minute 86

Dia. of Cylinders

13 1/2" - 23" - 38"

Length of Stroke 24"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals

as per Rule 4 5/8"

as fitted 4 7/8"

Crank pin dia. 8 3/8"

Crank webs

Mid. length breadth 1 1/2"

Thrust shaft, diameter at collars

as per Rule 4 5/8"

as fitted 4 7/8"

Intermediate Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 8 0/85"

as fitted 8 1/2"

Is the screw shaft fitted with a continuous liner

Yes

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 8 0/85"

as fitted 8 1/2"

Is the screw shaft fitted with a continuous liner

Yes

Bronze Liners, thickness in way of bushes

as per Rule 5/16"

as fitted 9/16"

Thickness between bushes

as per Rule 4/16"

as fitted 1/2"

Is the after end of the liner made watertight in the propeller boss

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

No

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

11' 3"

Pitch 12' 0"

No. of Blades 4

Material C.I.

whether Moveable

No

Total Developed Surface 48 sq. feet

Feed Pumps worked from the Main Engines, No. 2

Diameter 2"

Stroke 1' 3"

Can one be overhauled while the other is at work

Yes

Bilge Pumps worked from the Main Engines, No. 2

Diameter 2 1/4"

Stroke 1' 3"

Can one be overhauled while the other is at work

Yes

Feed Pumps

No. and size 2

6" x 4" x 6" Horiz.

How driven

Steam

Pumps connected to the

Main Bilge Line

No. and size 2

1 @ 6" x 4" x 6" 1 @ 10" x 9" x 24"

How driven

Steam

Ballast Pumps, No. and size 1

10" x 9" x 24"

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

1 @ 4"

Independent Power Pump Direct

Suctions, connected to both Main Bilge Pumps and Auxiliary

Suctions

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

Yes

Bilge Pumps;—In Engine and Boiler Room

2 @ 2 1/2"

Boiler room

1 @ 3"

1 @ 2 1/2"

Eng. Room

In Holds, &c.

2 @ 2 1/2"

Fore Hold

2 @ 2 1/2"

aft hold

Main Water Circulating Pump Direct

Bilge Suctions, No. and size 1 @ 4"

Independent Power Pump Direct

Suctions to the Engine Room Bilges,

No. and size 1 @ 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 3"

Independent Power Pump Direct

Suctions to the Engine Room Bilges,

No. and size 1 @ 3"

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

No. and size 1 @ 3"

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 fitted with Valves or Cocks

Both

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

Yes

Are the Overboard Discharges above or below the deep water line

above

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

Yes

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

Yes

What Pipes pass through the bunkers

Hold bilge Suctions

How are they protected

Wooden Casings

Have they been tested as per Rule

What pipes pass through the deep tanks

For hold bilge

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 S.)

Total Heating Surface of Boilers 2231

Is Forced Draft fitted

No

No. and Description of Boilers 1 S.E.

Working Pressure 200

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

Yes

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

PLANS. Are approved plans forwarded herewith for Shafting

(If not state date of approval)

Main Boilers

Yes

Auxiliary Boilers

Donkey Boilers

Yes

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

Yes

SPARE GEAR. State the articles supplied:—

1 Cast iron Propeller

Two Bottom End bolts

2 top end bolts

2 main bearing bolts

6 Coupling

bolts

2 feed pump valves

2 bilge pump valves

1 Seal

2

Safety valve springs

6 boiler tubes

1 Set air & circulating pump

valves

1/2 cwt. iron plate

1/2 cwt. iron bar

100 bolts & nuts (assorted)

The foregoing is a correct description,

FOR THE NORTH EASTERN MARINE ENGINEERING CO. LTD.

Archd. L. Bay.

MANAGER

Manufacturer.



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Lloyd's Register Foundation

W 374-0179

1933. Apr. 24. May. 1. 2. 4. 12. 15. 19. 23. 29. 30. June. 8. 12. 13. 15. 16. 19. 23. 28. July. 3. 6. 12. 13.
14. 18. 19. 24. 26. Aug. 1. 9. 11. 14. 16. 18. 23. 25. 28

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits 36

Dates of Examination of principal parts—Cylinders *May 19th June 12. 19.* Slides 12.6.33. Covers 19.5.33.
Pistons 23.6.33. Piston Rods 16.6.33. Connecting rods 6.4.33.
Crank shaft *May 2. 19. June 12. 13.* Thrust shaft 13.6.33. Intermediate shafts —
Tube shaft — Screw shaft 18.19.4.33. Propeller 19.4.33.
Stern tube 19.4.33. Engine and boiler seatings 19.4.33. Engines holding down bolts 9.8.33.
Completion of fitting sea connections 19.4.33.
Completion of pumping arrangements 23.8.33. Boilers fixed 9.8.33. Engines tried under steam 23.8.33.
Main boiler safety valves adjusted 23.8.33. Thickness of adjusting washers *Port 7/16" Starboard 7/16"*
Crank shaft material *Ingot Steel* Identification Mark *6839* Thrust shaft material *Ingot Steel* Identification Mark *6840*
Intermediate shafts, material ✓ Identification Marks *W. H. F. 13.6.33* Tube shaft, material ✓ Identification Mark *13.6.33*
Screw shaft, material *Ingot Steel* Identification Mark *6840 MP* Steam Pipes, material *Steel (SP)* Test pressure *600 lb/sq* Date of Test 9.8.33.
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 *No.* If so, state name of vessel
General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been built under Special Survey in accordance with the rules of the Society.
The materials & workmanship are good.
The machinery has been securely fitted on board the vessel & tried under Steam with satisfactory results & is eligible, in my opinion, to have notation *L.M.C. 8.33.* T.S. (CL) in the Register Book.

The amount of Entry Fee ... £ 3 : -
Special ... £ 29 : 10
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :
When applied for, 28 Aug 1933
When received, 31/8/33

J. H. Fraser
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 5 SEP 1933

Assigned

+ L.M.C. 8.33

C.L.

CERTIFICATE NULL & VOID



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