

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

AUG 27 1937

Date of writing Report

When handed in at Local Office

26 AUG. 1937

Port of

Sunderland.

No. in Survey held at
Reg. Book.

S.S. "CORABELLA"

Date, First Survey

6th Jan

Last Survey

20th Aug 1937

(Number of Visits 59)

Gross 5682

Tons Net 3373

When built 1934

on the

Built at Sunderland

By whom built J.L. Thompson & Sons Ltd

Yard No. 581

Engines made at Sunderland

By whom made G. Black (1936) Ltd

Engine No. 1206

When made 1934

Boilers made at Sunderland

By whom made G. Black (1936) Ltd

Boiler No. 1206

When made 1934

Registered Horse Power

Owners The Vener Steamship Co Ltd

Port belonging to London

Nom. Horse Power as per Rule

395

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Ylo.

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines

Triple Expansion marine (Poppet valves & HP) Revs. per minute 63

Dia. of Cylinders 22³/₄ - 63

Length of Stroke 45

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals as per Rule 12³/₈Crank pin dia. 12³/₈

Crank webs Mid. length breadth 8

Mid. length thickness 8

Thickness parallel to axis 8

Thickness around eye-hole 6¹/₁₆Intermediate Shafts, diameter as per Rule 12¹/₄as fitted 12¹/₄Thrust shaft, diameter at collars as per Rule 12³/₈as fitted 12³/₈

Tube Shafts, diameter as per Rule 1

as fitted 1

Screw Shaft, diameter as per Rule 13³/₄as fitted 13³/₄

Is the tube shaft fitted with a continuous liner

Ylo.

Bronze Liners, thickness in way of bushes as per Rule 23³/₃₂as fitted 23³/₃₂Thickness between bushes as per Rule 22³/₃₂as fitted 22³/₃₂

Is the after end of the liner made watertight in the

one length

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

Ylo.

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

Ylo.

If so state type

Ylo.

Propeller, dia. 14¹/₂ - 6Pitch 19³/₃₂

No. of Blades 4

Material Bronze

whether Moveable

No.

Feed Pumps worked from the Main Engines, No. 2

Diameter 3¹/₄

Stroke 26

Can one be overhauled while the other is at work

Ylo.

Total Developed Surface 99.5 sq. feet

Bilge Pumps worked from the Main Engines, No. 2

Diameter 3¹/₄

Stroke 26

Can one be overhauled while the other is at work

Ylo.

Ylo.

Feed Pumps

No. and size 2 7¹/₂ x 9¹/₂ x 21

Pumps connected to the

Main Bilge Line

How driven

Steam

Ballast Pumps, No. and size

Two 10" x 12" x 12"

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

Ylo.

Suctions, connected to both Main Bilge Pumps and Auxiliary

Ylo.

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

Ylo.

Bilge Pumps;—In Engine and Boiler Room

3 @ 3" in E.R.

1 @ 3" in Tunnel well

In Holds, &c.

N°1. 3" φ 18. N°2. 3" φ 18. N°3. 3" φ 18.

N°4. 3" φ 18. N°5. 3" φ 18.

In Pump Room

N°4. 3" φ 18. N°5. 3" φ 18.

Independent Power Pump Direct Suctions to the Engine Room Bilges,

Ylo.

Ylo.

Ylo.

Main Water Circulating Pump Direct Bilge Suctions, No. and size

1 @ 3"

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

Ylo.

Ylo.

Ylo.

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

Ylo.

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

Ylo.

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

Ylo.

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

Ylo.

What Pipes pass through the bunkers

none

How are they protected

Ylo.

Have they been tested as per Rule

Ylo.

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

Ylo.

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tank into the cargo or machine spaces, or from one

compartment to another

Is the Shaft Tunnel watertight

Ylo.

Is it fitted with a watertight door

Ylo.

worked from

Top Rating in E.R.

Total Heating Surface of Boilers

5580 sq. ft.

Working Pressure

220 lbs.

Ylo.

Ylo.

Is Forced Draft fitted

Ylo.

No. and Description of Boilers

3 S.B. (Spt)

Ylo.

Ylo.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

Ylo.

If so, is a report now forwarded?

Ylo.

Ylo.

Ylo.

IS A DONKEY BOILER FITTED?

Ylo.

Is the donkey boiler intended to be used for domestic purposes only

Ylo.

Main Boilers

Auxiliary Boilers

Donkey Boilers

PLANS. Are approved plans forwarded herewith for Shafting

Ylo.

General Pumping Arrangements

Ylo.

Oil fuel Burning Piping Arrangements

Ylo.

Superheaters

Ylo.

Has the spare gear required by the Rules been supplied

Ylo.

State the principal additional spare gear supplied

Ylo.

One pair of top and bottom brasses & bolts, one pair of bottom end brasses & bolts, and set of piston rings for both fan & centrifugal pump engines. One pump unit complete for lubricator gear.

Ylo.

Ylo.

Ylo.

Ylo.

Ylo.

The foregoing is a correct description,

FOR GEORGE CLARK (1936) LTD.

H. Blackie

Manufacturer.

Ylo.

Ylo.

NOTE.—The motor vessel is not to be used for the purpose of carrying passengers or cargo.

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1937. Jan. 6, 12, 19, 28 Feb. 2, 4, 11, 15, 19, 22, 26, Mch. 2, 4, 10, 17, 19, 22, Apl. 2, 9, 13, 16
During progress of work in shops -- 19, 20, 23, 26, 28 May 3, 6, 10, 13, 19, 20, 21, 25, 28, 30 June 4, 7, 11, 15, 18, 22, 25, 29 July 1, 9,
12, 13, 14, 16, 19, 22, 26, 28, 29, 30, Aug. 7, 11, 20.
During erection on board vessel --
Total No. of visits 59

Dates of Examination of principal parts—Cylinders 19/2/34, 2/4/34, 20/4/34. Slides 4/6/34. 22/6/34 Covers. 22/6/34.
Pistons 28/5/34. Piston Rods 21/5/34. Connecting rods 9/4/34.
Crank shaft 14/3/34. Thrust shaft 4/3/34. Intermediate shafts 19/5/34. 25/5/34.
Tube shaft ✓ Screw shaft 6/5/34. 10/5/34. Propeller 21/5/34 (Hamburg).
Stern tube 18/6/34, 9/7/34 Engine and boiler seatings 12/4/34. Engines holding down bolts 19/4/34.
Completion of fitting sea connections 15/6/34.
Completion of pumping arrangements 20/8/37 Boilers fixed 19/4/34. Engines tried under steam 30/4/34. P 7/16 Spt. C. Bl. S 7/16 3/8
Main boiler safety valves adjusted 30/4/34. Thickness of adjusting washers P. Bl. S. 3/8 3/8 C. Bl. S 7/16 3/8 N° 814 WNF.
Crank shaft material Ingot Steel Identification Mark 17/3/34. Thrust shaft material Ingot Steel Identification Mark 4/3/34.
Intermediate shafts, material Ingot Steel Identification Marks N° 814 WNF Tube shaft, material ✓ Identification Mark 11/4/34.
Screw shaft, material Ingot Steel Identification Mark N° 814 WNF 19/5/37 25/5/37. Steam Pipes, material S.D. Steel Test pressure 660 Date of Test 19/7/34
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 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 desired.
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 now eligible in my opinion to have notation L.M.C. 8.34 T.S.(CL) 3 SB (Spt) in the Register Book.

The amount of Entry Fee ... £ 5 : :
Special ... £ 84 : 5 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 26 AUG. 1937
When received, 30.9.37

Committee's Minute TUE 31 AUG 1937

Assigned

+ Lmb 8.37 (Spt)
J.D., C/L

W. L. Fraser. L.R. Home.
Engineer Surveyor to Lloyd's Register of Shipping.



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