

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

13 DEC 1925

Date of writing Report

19

When handed in at Local Office 13/12/1926 Port of

No. in Survey held at
Reg. Book.

88476 on the

Newcastle-on-Tyne

Date, First Survey 31 March 1925 Last Survey

(Number of Visits 33)

11th 1926

Built at Newcastle

By whom built Swan Hunter & Wigham Richardson Ltd.

Yard No. 1291

Tons Gross 2759

Net 1633

When built 1926

Engines made at Newcastle

By whom made Wallsend Slipway & Eng. Co. Ltd.

Engine No. 863

when made 1926

Boilers made at Newcastle

By whom made Wallsend Slipway & Eng. Co. Ltd.

Boiler No. 863

when made 1926

Registered Horse Power

Owners

Bellerophon Lines Ltd.
(G. Smith, Mgr.)

Port belonging to Liverpool

Nom. Horse Power as per Rule

308 306

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes

Trade for which Vessel is intended

Ocean-going

ENGINES, &c.—Description of Engines

Inverted Triple Expansion

Revs. per minute 75

Dia. of Cylinders 22" 37" 62"

Length of Stroke 42"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals

as per Rule 11.73"

as fitted 12"

Crank pin dia. 12 1/4"

Crank webs

Mid. length breadth 18"

Mid. length thickness 7 1/4"

Thrust shaft, diameter at collars

as per Rule 11.73"

as fitted 12"

Intermediate Shafts, diameter

as per Rule

as fitted 11.18"

Tube Shafts, diameter

as per Rule

as fitted 12 1/4"

Bronze Liners, thickness in way of bushes

as per Rule .68"

as fitted 1/16"

Screw Shaft, diameter

as per Rule 12.53"

as fitted 12 1/4"

Is the shaft fitted with a continuous liner

Yes

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

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

No.

Length of Bearing in Stern Bush next to and supporting propeller

57 1/2"

Propeller, dia. 16' 3"

Pitch 15' 3"

No. of Blades 4

Material

whether Moveable

No.

Total Developed Surface 81 sq. feet

Feed Pumps worked from the Main Engines, No. 2

Diameter 3 1/2"

Stroke 22"

Can one be overhauled while the other is at work

Yes

Bilge Pumps worked from the Main Engines, No. 2

Diameter 3 1/2"

Stroke 22"

Can one be overhauled while the other is at work

Yes

Auxiliary Feed

No. and size One main 6" x 8 1/2" x 18"

Auxiliary

Pumps connected to the

No. and size

One duplex Ballast 8" x 8" x 8"

Pumps

How driven

Steam

Main Bilge Line

How driven

Steam

Ballast Pumps, No. and size

One duplex 8" x 8" x 8"

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

No.

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

No. 1 2 off 2 1/2"

No. 2 2 off 2 1/2"

No. 3 2 off 3"

No. 4 2 off 2 1/2"

No. 5 2 off 2 1/2"

Tunnel well 1 off 2 1/2"

In Holds, &c.

No. 1 2 off 2 1/2"

No. 2 2 off 2 1/2"

No. 3 2 off 3"

No. 4 2 off 2 1/2"

No. 5 2 off 2 1/2"

No. 6 2 off 2 1/2"

No. 7 2 off 2 1/2"

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

One 7"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size One 4"

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 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 are carried through the bunkers

Bilge Suctions forward

How are they protected

wood-cased

What pipes pass through the deep tanks

Have they been tested as per Rule

Yes

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 upper deck

MAIN BOILERS, &c.—(Letter for record 3)

Total Heating Surface of Boilers

358

Working Pressure 185 lb

Is Forced Draft fitted

No

No. and Description of Boilers 3 Single End Cyl. Multi

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

(If not state date of approval)

Main Boilers

Yes

Auxiliary Boilers

Donkey Boilers

Superheaters

Yes

General Pumping Arrangements

Yes

Oil fuel Burning Piping Arrangements

Yes

SPARE GEAR. State the articles supplied:—

1 C.S. Propeller, 2 Pack bolts & nuts for main bearings & top & bottom ends

Set of coupling bolts, valves for all pumps, piston rings & springs, circulating pump impeller & glands

bolts, nuts, iron & usual sundries

The foregoing is a correct description,

Manufacturer.

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

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Lloyd's Register

W155-0028 on

1925
 During progress of work in shops - -
 14. 20. 29. 30. May 3. 7. 11. 26. June 4. 16. July 2. 8. 21. 23. 28. Dec. 11.
 1926
 Mar. 31. June 2. 11. Sept. 22. Jan. 27. Feb. 10. 17. Mar. 1. 5. 10. 12. 16. 19. 24. 29. 31. Apr. 8.
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits 33.

Dates of Examination of principal parts—Cylinders 10. 3. 26 Slides 7. 5. 26 Covers 10. 3. 26
 Pistons 31. 3. 26 Piston Rods 31. 3. 26 Connecting rods 31. 3. 26
 Crank shaft 31. 3. 26 Thrust shaft 31. 3. 26 Intermediate shafts 31. 3. 26 & 14. 4. 26
 Tube shaft ✓ Screw shaft 29. 4. 26 Propeller 16. 3. 26
 Stern tube 11. 5. 26 Engine and boiler seatings 8. 7. 26 Engines holding down bolts 21. 7. 26
 Completion of pumping arrangements 28. 7. 26 Boilers fixed 21. 7. 26 Engines tried under steam 28. 7. 26
 Main boiler safety valves adjusted 28. 7. 26 Thickness of adjusting washers Port Boiler 4.5 3/8" Centre Bl 5 1/2" Star Bl 5 1/16"
 Crank shaft material S.M. Ingot Steel Identification Mark 1589 F.Q. Thrust shaft material S.M. Ingot Steel Identification Mark 6558 M.B.
 Intermediate shafts, material S.M. Ingot Steel Identification Marks 1542 F.Q. 6548 M.B. 6566 M.B. Identification Mark 6551 M.B.
 Screw shaft, material M. Ingot Steel Identification Mark 6547 M.B. Steam Pipes, material S.D. Copper Test pressure 370 lbs Date of Test 16. 23. 7. 26
 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.)

The machinery of this vessel has been constructed under special survey. The material and workmanship are sound and good. It has been efficiently installed and fastened on the vessel and tried out under steam at a moving trial. The safety valves of the Boilers have been adjusted under steam.
 Machinery tried under steam under working condition.

In an opinion this vessel is now eligible for notation in the Society's Register Book of + LMC. 12. 26. T.S. C.L.

It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC 12. 26. CL.

Certificate to be sent to

The amount of Entry Fee ... £ 5 : -
 Special ... £ 71 : 4
 Donkey Boiler Fee ... £
 Travelling Expenses (if any) £

When applied for,
 14. DEC 1926
 When received,
 17. 12. 26

W.D.
 7/12/26
 William Dutton R. Lee Amess.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 17 DEC 1926

Assigned

+ LMC 12. 26
 C.L.

CERTIFICATE WRITTEN



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 Foundation