

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Reported at London Office

APR 4 1939

NEWCASTLE-ON-TYNE

Date of writing Report

19

When handed in at Local Office

31/3/1939 Port of

No. in Survey held at

South Shields

Date, First Survey 2nd May 1938 Last Survey Mar 21st 1939

Reg. Book.

(Number of Visits 100)

90254 on the

S. S. THORNIEBANK

Tons

Gross 5568.54

Net 3249.39

Built at S. Shields By whom built

J. Readhead & Sons Ltd

Yard No. 515

When built 1939

Engines made at South Shields By whom made

J. Readhead & Sons Ltd

Engine No. 515

When made 1939

Boilers made at South Shields By whom made

J. Readhead & Sons Ltd

Boiler No. 515

When made 1939

Registered Horse Power

842

Owners Bank Line Ltd

Port belonging to Glasgow

Nom. Horse Power as per Rule

524

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

Trade for which Vessel is intended

General Cargo

ENGINES, &c.—Description of Engines

Triple Expansion

Revs. per minute 72

Dia. of Cylinders 25" x 42" x 71"

Length of Stroke 48"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals

as per Rule 14.115"

as fitted 14.25"

Crank pin dia.

14 1/4"

Crank webs

Mid. length breadth 1'-8 1/2"

Thickness parallel to axis 9"

Mid. length thickness 9"

Thickness around eye-hole 6 1/4"

Intermediate Shafts, diameter

as per Rule 13 1/2"

as fitted 13 1/2"

Thrust shaft, diameter at collars

as per Rule 14.115"

as fitted 14.25"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 15.0"

as fitted 15.25"

Is the { tube } shaft fitted with a continuous liner { screw }

Yes

Bronze Liners, thickness in way of bushes

as per Rule 7/65"

as fitted 13/16"

Thickness between bushes

as per Rule

as fitted

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

Yes

shaft

If so, state type

MEAN

Length of Bearing in Stern Bush next to and supporting propeller 5'-1 1/4"

Propeller, dia. 18-0"

Pitch 17'-6"

No. of Blades 4

Material Bronze

whether Moveable

No

Total Developed Surface

116

sq. feet

Feed Pumps worked from the Main Engines, No. 2

Diameter 4 3/8"

Stroke 24"

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 24"

Can one be overhauled while the other is at work

Yes

Feed Pumps

No. and size

(2) 9" x 12" x 24"

(1) 9" x 12" x 24"

Pumps connected to the

Main Bilge Line

No. and size

One - 9 1/2" x 12" x 18"

How driven

Steam

Ballast Pumps, No. and size

(1) 9 1/2" x 12" x 18"

(1) 12" x 10 1/2" x 24"

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

Yes

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

3 - 2 3/4" dia.

In Pump Room

Yes

In Holds, &c. N°1 hold 2-3" dia. N°2 hold 2-3 1/2" dia. N°3 hold 2-2 1/2" dia.

N°4 hold 2-3" dia. N°5 hold 2-3" dia. N°6 hold 2-2 1/2" dia. Tunnel well 1-2 1/2" dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 9" dia.

No. and size One 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 fitted with Valves or Cocks

Blocked

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

Below

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

Bilge - side ports

How are they protected

Wood casings

What pipes pass through the deep tanks

None

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 Top platform

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

Total Heating Surface of Boilers

7444 sq.

Is Forced Draft fitted

Yes

No. and Description of Boilers 2 Main - 1 Aux - S.E.M.

Working Pressure 220 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

Yes

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

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

Yes

PLANS.

Are approved plans forwarded herewith for Shafting 24-6-38 Main Boilers 2-12-37 Auxiliary Boilers 2-12-37 Donkey Boilers

(If not state date of approval)

Superheaters

Yes

General Pumping Arrangements 25-5-38

Oil fuel Burning Piping Arrangements

Yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied

Yes

State the principal additional spare gear supplied

One spare screw shaft &c. 12 Boiler tubes, 6 Condenser tubes, 60 Piston rods, One piston

valve spindle & extension spindle.

For JOHN READHEAD & CONS. LTD.

The foregoing is a correct description,

CHAIRMAN & MANAGING DIRECTOR,

Manufacturer.



© 2019

Lloyd's Register

Foundation

PILL

"

"

"

"

Cent

Pl

STRIP

Str

Th

Thi

Thi

If S

Secor

Stri

STI

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

Rpt. 5

Date of wr

No. in
Reg. Book.

90254

Master

Engines m

Boilers m

Nominal

MULTI

Manufact

Total Hea

No. and

Tested by

Area of

Area of e

In case of

Smallest

Smallest

Largest in

Thickness

long. seam

Percentage

Percentage

Thickness

Material

Length of

Dimension

End plate

How are

Tube plat

Mean pitc

Girders to

at centre

in each

Tensile st

Pitch of st

Working

Thickness

Pitch of s

Working

Diameter

Working

Diameter

Certificate to be sent to Newcastle-on-Tyne

The Surveyor are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 0 : 0 :
Special ... £ 101 : 4 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, -8 APR 1939
When received, 14. 4. 1939

Committee's Minute

Assigned

+ Lamb 339
2 S.B. (Spt)
1 Amb S.B.

WED 12 APR 1939

J. H. Matthews

Engineer Surveyor to Lloyd's Register of Shipping.



© 2019

Lloyd's Register
Foundation