

REPORT ON MACHINERY.

Received at London Office

WED. 29 JUN. 1921

Date of writing Report 3rd May 1921. When handed in at Local Office 3 May 1921 Port of NEWCASTLE-ON-TYNENo. in Survey held at
Reg. Book.

South Shields

Date, First Survey 19th Nov 1918Last Survey 28th April 1921

(Number of Visits 26)

on the

Steel Screw Steamer

"Edenside"

Tons { Gross 366.
Net 148.

Master John Olsen

Built at

Newcastle

By whom built

J. & D. Morris Ltd. (tr. 70)

When built

1921

Engines made at

South Shields

By whom made

Geo. J. Grey & Co. Ltd. (tr. 605)

when made

1921

Boilers made at

Newcastle

By whom made

Palmer & Co.

when made

1921

Registered Horse Power

Owners

Wear Steam Shipping Co. (tr. 197)

Port belonging to

Nom. Horse Power as per Section 28

64.

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Compound

No. of Cylinders Two

No. of Cranks Two

Dia. of Cylinders 17" - 34"

Length of Stroke 24"

Revs. per minute 100

Dia. of Screw shaft as per rule 7.5"

Material of screw shaft Scrap Iron

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

yes

Is the after end of the liner made water tight

in the propeller boss

yes

If the liner is in more than one length are the joints burned

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

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

Length of stern bush 2' 8"

Dia. of Tunnel shaft as per rule 6.9"

Dia. of Crank shaft journals as per rule 7.24"

Dia. of Crank pin 7.5"

Size of Crank webs

Dia. of thrust shaft under

collars 7.3"

Dia. of screw 8" 9"

Pitch of Screw 11" 3"

No. of Blades 4

State whether moveable No

Total surface 32 sq. ft.

No. of Feed pumps Two

Diameter of ditto 2 1/4"

Stroke 13"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps Two

Diameter of ditto 2 3/8"

Stroke 13"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines One

Sizes of Pumps 5 1/2" x 3 1/2" x 5"

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room One - 2" dia.

In Holds, &c. Main Hold 3 - 2" dia.

No. of Bilge Injections 1

sizes 3 1/2"

Connected to condenser, or to circulating pump C.P.

Is a separate Donkey Suction fitted in Engine room & size

yes

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

yes

Are all connections with the sea direct on the skin of the ship

yes

Are they 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 Discharge Pipes 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

None

How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

yes

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

yes

BOILERS, &c.—(Letter for record

(5)

Manufacturers of Steel

See New Report No. 73325 for Particulars

Total Heating Surface of Boilers 1180 sq. ft.

Is Forced Draft fitted

No

No. and Description of Boilers 1. S.E. Cylindrical multitubular

Working Pressure 130 lb. sq. in.

Tested by hydraulic pressure to

260 lb. sq. in.

Date of test 2-3-20

No. of Certificate 9368

Can each boiler be worked separately

yes

Area of fire grate in each boiler

36 sq. ft.

No. and Description of Safety Valves to

each boiler 2 Direct Spring loaded

Area of each valve 5.93 sq. in.

Pressure to which they are adjusted

135 lb.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

2' 0"

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

plate

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

00674-00681-0080

IS A DONKEY BOILER FITTED?

no.

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:— 2 Connecting rod top and 2 bottom end bolts and nuts.

2 main bearing bolts and nuts, 1 set of shaft coupling bolts and nuts, 1 set of piston bolts and nuts, 1 set of feed, bilge, air and circulating pump valves, 1 main and 1 auxiliary feed check valve lids, + propeller. a quantity of assorted bolts and nuts and iron of various sizes.

The foregoing is a correct description,

GEO. T. GREY & CO. LTD.

H. Hunter Douglass

Director

Manufacturers of Engines

Dates of Survey while building { During progress of work in shops - - 1918 Nov 19, 27 Dec 11, 20 Feb 13, Apr 24 June 4, Sep 9, 16, Oct 15, 21, Nov 12, 18, 23, 26, 29, 29 Dec 13, 16, 21
During erection on board vessel - - 1921 Jan 10, 14, 20, 24, 27, Feb 7, Mar 7, 18, 22, 24, 30, Apr 1-4, 18, 28,
Total No. of visits 36

Is the approved plan of main boiler forwarded herewith no.

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 13-2-19 Slides 13-2-19 Covers 14-1-21 Pistons 10-1-21 Rods 19-11-18.

Connecting rods 19-11-18. Crank shaft 4-6-19 Thrust shaft 19-11-20 Tunnel shafts ✓ Screw shaft 19-11-20 Propeller 24-1-21.

Stern tube 20-1-21 Steam pipes tested 18-3-21 Engine and boiler seatings 18-3-21. Engines holding down bolts 4-4-21.

Completion of pumping arrangements 28-4-21 Boilers fixed 30-3-21. Engines tried under steam 28-4-21.

Completion of fitting sea connections 9-2-21 Stern tube 8-2-21. Screw shaft and propeller 9-2-21.

Main boiler safety valves adjusted 27-4-21. Thickness of adjusting washers PV 5/8". SV 3/4" full.

Material of Crank shaft Steel Identification Mark on Do. 4823 TRW Material of Thrust shaft Steel Identification Mark on Do. 4823 TRW

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 4823 TRW

Material of Steam Pipes Copper ✓ Test pressure 260 lbs per sq inch ✓

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 Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case yes. If so, state name of vessel s/s "Mondara".

General Remarks (State quality of workmanship, opinions as to class, &c. The workmanship and materials are

good. The engines and boiler of this vessel have been built under special survey and are now fitted satisfactorily.

On completion, the whole of the machinery was examined under steam and found to work well in every way.

The machinery is now in good and efficient condition and eligible in my opinion to have the notation of LMC. 4. 21. (in red) in the Society's Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 4. 21. C.L.

W.D.
2/7/21

The amount of Entry Fee ... £ 2 : : :
Special £ 12 : 1 : :
Donkey Boiler Fee ... £ : : :
Travelling Expenses (if any) £ : : :
When applied for, 28/6/21.
When received, 12/7/21.

W. Lindale.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. JUL. 5 1921

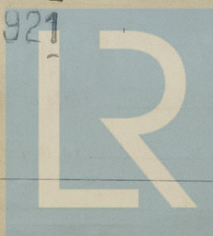
FRI. NOV. 18 1921

Assigned

+ Lmb 4. 21

FRI. 10 DEC. 1921

CERTIFICATE WRITTEN



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