

REPORT ON MACHINERY.

No. 60358

Received at London Office

WED. 14 JUN 1911

THUR. 25 MAY 1911

Date of writing Report

19

When handed in at Local Office

MAY 24 1911

Port of

NEWCASTLE ON TYNE

No. in Survey held at
Reg. Book.

N. Shields

Date, First Survey 15th March Last Survey 12th May 1911

(Number of Visits 16)

5-6 on the

Machinery of the S.S. "Nancy Hague"

Gross 295
Net 115

Master

Built at Midcumbro

By whom built Smiths Dock Co. Ltd

When built 1911

Engines made at

N. Shields

By whom made

Shields Engineering Co. Ltd

when made 1911

Boilers made at

Midcumbro

By whom made

Richardson Westgarth

when made 1911

Registered Horse Power

94

Owners

New Docks Stevedoring Co. Ltd Port belonging to Fleetwood

Nom. Horse Power as per Section 28

91

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Triple

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders 13 1/4" 23" 37"

Length of Stroke

27"

Revs. per minute

110

Dia. of Screw shaft

as per rule 7.87

as fitted 8 1/8"

Material of screw shaft

Gun

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

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

Length of stern bush 39"

Dia. of Tunnel shaft

as per rule 6.94"

Dia. of Crank shaft journals

as per rule 7.287"

Dia. of Crank pin

7 1/2"

Size of Crank webs

4 1/2" x 11 1/4"

Dia. of thrust shaft under

collars

7 1/2"

Dia. of screw

9-9"

Pitch of Screw

10-6"

No. of Blades

4

State whether moveable solid

Total surface

31.5 sq ft

No. of Feed pumps

2

Diameter of ditto

2 3/4"

Stroke

13 1/2"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2 3/4"

Stroke

13 1/2"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Sizes of Pumps

6" x 6" x 6"

6" x 4" x 6"

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

In Engine Room

two

2"

In Holds, &c.

One

2"

No. of Bilge Injections

1

sizes

3 1/2"

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

Yes

2"

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

none

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

Yes

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

Dates of examination of completion of fitting of Sea Connections

12.4.11

of Stern Tube

12.4.11

Screw shaft and Propeller

12.4.11

allw

Is the Screw Shaft Tunnel watertight

none

Is it fitted with a watertight door

Yes

worked from

Yes

BOILERS, &c.—(Letter for record

Manufacturers of Steel

See report on boiler attached

Total Heating Surface of Boilers

1599 sq ft

Is Forced Draft fitted

no

No. and Description of Boilers

1

Single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

13/4/11

No. of Certificate

4625

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

52.5 sq ft

No. and Description of Safety Valves to

each boiler

2 direct spring

Area of each valve

4.9 sq ft

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

9 1/2"

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

End plates in steam space:

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Working pressure of plate by rules

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

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description				
Made at	By whom made	When made	Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length		
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— 1 set of top end & 1 set of bottom end bolts
2 main bearing bolts, 1 set of coupling bolts, 1 set of fuel and
bilge pump valves, a quantity of assorted bolts nuts & iron.

The foregoing is a correct description,

Jno. Blakey

Manufacturer.

FOR THE SHIELDS ENGINEERING & DOCK CO., LIMITED

1911
 Dates of Survey while building
 During progress of work in shops -- Mar. 15. 22. 24. 29. Apr. 4. 5. 6. 11. 20. 25. 27. 29. May 6. 10. 11. 12
 During erection on board vessel --- Mar. 12
 Total No. of visits 16

Is the approved plan of main boiler forwarded herewith (with memo)

Dates of Examination of principal parts—Cylinders 24/3-4/4/11 Slides 29/4/11 Covers 20/4/11 Pistons 29/4+25/4/11 Rods 20+25/4/11
 Connecting rods 20+25/4/11 Crank shaft 22/3/11 Thrust shaft 29/4/11 Tunnel shafts ✓ Screw shaft 4/4/11 Propeller 4/4/11
 Stern tube 5/4/11 Steam pipes tested 10/5/11 Engine and boiler seatings 29/4/11 Engines holding down bolts 11/5/11
 Completion of pumping arrangements 11/5/11 Boilers fixed 6/5/11 Engines tried under steam 12/5/11
 Main boiler safety valves adjusted 12/5/11 Thickness of adjusting washers F 3/8" A 1/32"
 Material of Crank shaft Steel Identification Mark on Do. E.M.S. 176 27/12/11 Material of Thrust shaft Steel Identification Mark on Do. E.M.S. 176 27/12/11
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. E.M.S. 176 27/12/11
 Material of Steam Pipes Solid drawn copper ✓ Test pressure 360 lbs ✓

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under special survey, the materials used are good, and the workmanship is satisfactory, the engines and boilers have been properly fitted on board and secured, the safety valves have been adjusted, and the engines tried under steam. In my opinion the machinery is eligible for record of L.M.C. 5.11

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.11.

JWD 15/6/11

Charles Cooper
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

The amount of Entry Fee .. £ 1 : :
 Special .. £ 8 6 : :
 Donkey Boiler Fee .. £ : :
 Travelling Expenses (if any) £ : :
 When applied for, MAY 24 1911
 When received, 5-7-11

Committee's Minute

Assigned

+ LMC 5.11

MASTERY CERTIFICATE
 WRITTEN



© 2020
 Lloyd's Register
 Foundation