

Rpt. 4.

REPORT ON MACHINERY.

No. 59873

Received at London Office

MAR 30 1911

Date of writing Report

19

When handed in at Local Office

MAR 3 1911

Port of

NEWCASTLE ON TYNE

No. in Survey held at
Reg. Book.

North Shields

Date, First Survey 5th Oct. 1910

Last Survey

23rd March 1911

(Number of Visits)

22

on the Machinery of S.S. "Wyre"

Master H. Robinson

Built at

Middlesbrough

By whom built

Smiths Dock Co. Ltd.

When built

1911

Engines made at

H. Shields

By whom made

Shields Engineering Co. Ltd.

When made

1911

Boilers made at

H. Shields

By whom made

J. T. Eltringham & Co.

When made

1911

Registered Horse Power

Owners

Wyre Steam Trawling Co. Ltd.

Port belonging to

H. Wood

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

No. of Cylinders

No. of Cranks

Dia. of Cylinders

13 1/4", 23", & 37"

Length of Stroke

27"

Revs. per minute

110

Dia. of Screw shaft

as per rule

Material of

screw shaft

Steel

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

39"

Dia. of Tunnel shaft

as per rule

6 9/16"

Dia. of Crank shaft journals

as per rule

7 23/32"

Dia. of Crank pin

7 1/2"

Size of Crank webs

11 1/4" x 4 1/2"

Dia. of thrust shaft under

collars

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" dia.

In Holds, &c.

two forward 2" dia.

No. of Bilge Injections

1

sizes

3 1/2"

Connected to condenser, or to circulating pump

Yes

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

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

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

3. 2. 11.

of Stern Tube

7. 2. 11

Screw shaft and Propeller

9. 2. 11

Is the Screw Shaft Tunnel watertight

none

Is it fitted with a watertight door

worked from

Is it

Is it

Is it

Is it

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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:— Two top & two bottom end connecting rod bolts & nuts. Two main bearing bolts & nuts. One set of coupling bolts & nuts. One set of feed & bilge pump valves. Main & donkey feed check valves. Assorted bolts & nuts etc.

The foregoing is a correct description,

Jno. Blakey

Manufacturer.

Dates of Survey while building

During progress of work in shops	1910 Oct. 5. 10. 19. 25. Nov. 1. 9. Dec. 6. 10. 15. 23	1911 Jan. 5. Feb. 20. 24. 25
During erection on board vessel	1911 Feb. 1. 3. 7. 9. 12. 13. (hab.)	
Total No. of visits	15	7 (hab.)

Is the approved plan of main boiler forwarded herewith

Yes

Dates of Examination of principal parts—Cylinders 10/19/10 Slides 1/14/10 Covers 19/10/10 Pistons 10/10/10 Rods 10/19/10

Connecting rods 10/19/10 Crank shaft 19/10/10 Thrust shaft 2/2/11 Tunnel shafts _____ Screw shaft 19/10/10 Propeller 19/10/10

Stern tube 10/10/10 Steam pipes tested 24/2/11 Engine and boiler seatings 20/2/11 Engines holding down bolts 25/2/11

Completion of pumping arrangements 25/2/11 Boilers fixed 25/2/11 Engines tried under steam 21.3.11.

Main boiler safety valves adjusted 21.3.11. Thickness of adjusting washers 5/16" each

Material of Crank shaft Identification Mark on Do. 2588 W.D.H. Material of Thrust shaft Identification Mark on Do. 2588 W.D.H.

Material of Tunnel shafts Identification Marks on Do. ✓ Material of Screw shafts Identification Marks on Do. 2588 W.D.H.

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 boiler and machinery have been properly fitted on board and secured. They are now in good working condition and in our opinion eligible to have the notation of +LMC 3.11. in the Register Book.

This vessel was placed in Smith's dry dock & the propeller, stern bush & sea connection fastenings exd. & found good on 1st March 1911.

It is submitted that this vessel is eligible for THE RECORD, +LMC 3.11.

180th.

APR 20/3/11

The amount of Entry Fee .. £ 1 : : When applied for.

Special .. £ 13.13 : : MAR 4 1911

Donkey Boiler Fee .. £ : : When received.

Travelling Expenses (if any) £ : : Per 1911

Committee's Minute

FRI. 31 MAR 1911

Assigned

+LMC 3.11

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



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