

REPORT ON MACHINERY.

No. 55595

Port of *Newcastle on Tyne*No. in Survey held at *North Shields*Date, first Survey *July 9*Received at London Office *22 OCT 1908*

Reg. Book.

Last Survey *14. Oct 1908*

1908

on the *steel screw steamer "Limesdale"*

(Number of Visits //)

Master

Built at *Hessill*

Hull

By whom built

Dobson & Co

(151)

Tons { Gross
NetWhen built *1908*Engines made at *North Shields*

By whom made

*Shields Engineering & Dry Dock Co Ltd. 165*when made *1908*Boilers made at *Newcastle*

By whom made

*R. Stephenson & Co Ltd*when made *1908*

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

61

Is Refrigerating Machinery fitted for cargo purposes

*✓*Is Electric Light fitted *yes*ENGINES, &c.—Description of Engines *Compound*No. of Cylinders *two*No. of Cranks *two*Dia. of Cylinders *16" 34"*Length of Stroke *22"*Revs. per minute *111*

Dia. of Screw shaft

as per rule *1.195*Material of *steel*Is the screw shaft fitted with a continuous liner the whole length of the stern tube *no - two liners*

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 *✓*

If two

liners are fitted, is the shaft lapped or protected between the liners *flashed*Length of stern bush *2' 8 1/2"*

Dia. of Tunnel shaft

as per rule *6.6*

Dia. of Crank shaft journals

as per rule *6.99*Dia. of Crank pin *7"*Size of Crank webs *4 3/8 x 10 1/2*

Dia. of thrust shaft under

collars *7"*Dia. of screw *8' 4"*Pitch of Screw *9' 0" mean*No. of Blades *4*State whether moveable *no*Total surface *23.8 sq ft*No. of Feed pumps *1*Diameter of ditto *2 1/2"*Stroke *13"*Can one be overhauled while the other is at work *✓*No. of Bilge pumps *1*Diameter of ditto *2 1/2"*Stroke *12"*Can one be overhauled while the other is at work *✓*No. of Donkey Engines *one*Sizes of Pumps *Duplex 5 1/4 x 3 1/2 x 5*

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

In Engine Room *8' 2" dia*In Holds, &c. *1. 7 1/2" 19" from peak tank*No. of Bilge Injections *1*sizes *3"*Connected to condenser, or to circulating pump *C.P.*Is a separate Donkey Suction fitted in Engine room & size *yes 3"*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 *✓*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 *✓*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*Dates of examination of completion of fitting of Sea Connections *2-10-08* of Stern Tube *2-10-08* Screw shaft and Propeller *2-10-08*Is the Screw Shaft Tunnel watertight *✓*Is it fitted with a watertight door *✓*worked from *✓*

BOILERS, &c.—(Letter for record)

Manufacturers of Steel *J. Shewell & Son*Total Heating Surface of Boilers *1095*Is Forced Draft fitted *no*No. and Description of Boilers *1. S.E. A.L. Multitubular*Working Pressure *135 lb*Tested by hydraulic pressure to *270 lb*Date of test *13. Y. 08*No. of Certificate *7734*Can each boiler be worked separately *✓*Area of fire grate in each boiler *34.5 sq ft*

No. and Description of Safety Valves to

each boiler *two direct Spring*Area of each valve *4.9 sq in*Pressure to which they are adjusted *140 lb*Are they fitted with easing gear *yes*Smallest distance between boilers or uptakes and bunkers or woodwork *11*Mean dia. of boilers *particulars appended*

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

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

Thickness of plates

crown

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

Diameter 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

Diameter 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

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

W629-0101

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description *None fitted*
 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 _____
 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 _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *Two top end bolts & two bottom end bolts & nuts, two main bearing
 spare coupling bolts, with nuts complete, spare fuel & bilge pump valves assorted iron bolts & nuts*

The foregoing is a correct description,

THE SHIELDS ENGINEERING & DRY DOCK CO., LIMITED.

Manufacturer.

Richardson

Dates of Survey while building { During progress of work in shops - - } *1908 July 9. 24 Aug 13. 28 Sep 22. 23 Oct 26. 9. 12. 14*
 { During erection on board vessel - - }
 Total No. of visits //

Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders *24.7.08* Slides *24.7.08* Covers *24.7.08* Pistons *24.7.08* Rods *24.7.08*
 Connecting rods *24.7.08* Crank shaft *6-10-08* Thrust shaft *2-10-08* Tunnel shafts *✓* Screw shaft *28.9.08* Propeller *2-10-*
 Stern tube *2-10-08* Steam pipes tested *7-10-08* Engine and boiler seatings *2-10-08* Engines holding down bolts *7. 10. 08.*
 Completion of pumping arrangements *9-10-08* Boilers fixed *9-10-08* Engines tried under steam *9-10-08*
 Main boiler safety valves adjusted *9. 10 08* Thickness of adjusting washers *Port Valve 3/8" Starboard Valve 3/8"*
 Material of Crank shaft *Steel* Identification Mark on Do. *2088 ATG* Material of Thrust shaft *Iron* Identification Mark on Do. *2088 A*
 Material of Tunnel shafts *✓* Identification Marks on Do. _____ Material of Screw shafts *Iron* Identification Marks on Do. *2088 A*
 Material of Steam Pipes _____ *Copper.* Test pressure *280 lbs at Bellon Graham Wks. N. Chis.*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery built under Special Survey the material and workmanship found good and efficient

*The machinery fitted up on board tested under steam found satisfactory
 In my opinion this vessel is eligible for the notation of L.M.C. 10.08*

It is submitted that
 this vessel is eligible for
 THE RECORD. *L.M.C. 10.08.*

ELEC LIGHT.

J.C. 22.10.08

J.R.R.

22.10.08

The amount of Entry Fee. £ *1 : 0 :* When applied for, *21 OCT 1908*
 Special .. £ *9 : 3 :*
 Donkey Boiler Fee .. £ : : When received, *20.11.08*
 Travelling Expenses (if any) £ : : *of Little*

Committee's Minute

Assigned

FRI. 23 OCT 1908

*+ L.M.C. 10.08
 Elec. Light*

Leonard & Shalcross, & J. Robinson
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipp



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 Foundation

Certificate (if required) to be sent to the Secretary of the Committee (The Surveyors are requested not to write on or below the space for Committee's Minute.)

MACHINERY CERTIFICATE
 WRITTEN