

REPORT ON MACHINERY.

No. 4966

Received at London on SAT. JUN. 14. 1913

Date of writing Report 10-6-1913 When handed in at Local Office 12-6-1913 Port of MIDDLESBROUGH-ON-TEES

No. in Survey held at Middlesbrough Date, First Survey 15th Jan. Last Survey 4th June 1913.

Reg. Book. 185 on the S.S. "Lasebo" (Number of Visits 39)

Master Built at Middlesbrough By whom built Smith's Dock Co. Ld. When built 1913

Engines made at Middlesbrough By whom made Smith's Dock Co. Ld. (No. 51) when made 1913

Boilers made at Newcastle By whom made Hawthorn, Leslie & Co. Ld. when made 1913

Registered Horse Power Owners Neale & West, Ld. Port belonging to Cardiff

Total Horse Power as per Section 28 84. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 12 1/2, 21, 35 Length of Stroke 26 Revs. per minute Dia. of Screw shaft as per rule 7.55 as fitted 7 5/8 Material of screw shaft 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

Is 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 Length of stern bush 2-10 1/2

Dia. of Tunnel shaft as per rule 6.57 as fitted 6 3/4 Dia. of Crank shaft journals as per rule 6.9 as fitted 7 1/8 Dia. of Crank pin 7 1/8 Size of Crank webs 4 5/8 x 10 3/4 Dia. of thrust shaft under

collars 7 1/8 Dia. of screw 9.6 Pitch of Screw 10-10 No. of Blades 4 State whether moveable No Total surface 32 sq. ft.

No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work yes

No. of Donkey Engines One Sizes of Pumps 5 x 3 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 2 In Holds, &c. One 2

Ejector suction from engine room & slushwell & discharge overboard.

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 For bilge suction & winch pipes How are they protected Wood casing

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 6.5.13 of Stern Tube 6.5.13 Screw shaft and Propeller 6.5.13

Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door worked from

OILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers See Newcastle Rpt. No. 63881.

Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate

Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork 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 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

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. *None* 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 Safe _____

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. Assorted bolts & nuts etc.*

The foregoing is a correct description,

For Engines In Steers
11/6/13

Manufacturer. ←

1913

Dates of Survey while building: During progress of work in shops -- *Jan'y 15. 21. 24. 29. 31. Feby. 4. 7. 10. 14. 19. 24. 27. Mar 3. 5. 11. 14. 18. 19. 27. Apr 1. 2. 3. 4. 11. 17. 23. 26.*

During erection on board vessel -- *May 1. 2. 6. 15. 19. 21. 24. 26. 29. 30. Jun 2. 4.*

Total No. of visits *39*

Is the approved plan of main boiler forwarded herewith _____

_____ " " " donkey " " "

Dates of Examination of principal parts—Cylinders *11. 3. 13* Slides *1. 5. 13* Covers *1. 5. 13* Pistons *4. 4. 13* Rods *4. 4. 13*

Connecting rods *4. 4. 13* Crank shaft *24. 12. 12* Thrust shaft *24. 12. 12* Tunnel shafts ✓ Screw shaft *31. 1. 13* Propeller *1. 5. 13*

Stern tube *1. 5. 13* Steam pipes tested *26. 5. 13* Engine and boiler seatings *6. 5. 13* Engines holding down bolts *19. 5. 13*

Completion of pumping arrangements *29. 5. 13* Boilers fixed *19. 5. 13* Engines tried under steam *29. 5. 13*

Main boiler safety valves adjusted *29. 5. 13* Thickness of adjusting washers *PV 11/32 SV 3/8*

Material of Crank shaft *Steel* Identification Mark on Do. *3208WDM* Material of Thrust shaft *Iron* Identification Mark on Do. *3208WDM*

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *3208WDM*

Material of Steam Pipes *Solid drawn copper* ✓ Test pressure *360 lbs* ✓

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

The Engines of this vessel have been constructed under Special Survey, and are of good material and workmanship.

The Engines and Boiler of this vessel have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of +LMC 6.13 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 6.13.

J.W.D.
14/6/13

[Signature]

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

The amount of Entry Fee .. £ 1 : 0 : _____ When applied for, _____

Special £ 7 : 13 : *13. 6. 13*

Donkey Boiler Fee £ : : _____

Travelling Expenses (if any) £ : : *21/6/13*

Committee's Minute

Assigned

TUE JUN 17 1913

+ L.M.C. 6.13.

MACHINERY CERTIFICATE
WRITTEN.



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Foundation