

REPORT ON MACHINERY.

Port of *Newcastle-on-Tyne*

SAT. 6 OCT 1900

held at *South Shields*

Date, first Survey *Dec 14 99* Last Survey *Oct 2nd 1900*

(Number of Visits *29*)

S/S No. 104

Built at *Jaltonmish, Holland* By whom built *J. Meijer*

S. Shields

By whom made *G. J. Gray*

Tons ^{Gross} *✓*
_{Net} *✓*
When built *1900*

S. Shields

By whom made *J. J. Ellingham & Co.*

when made *1900*

when made *1900*

Power

Owners *Shipping Investments Co. Ltd.*

Port belonging to *London*

er as per Section 28

64

Is Refrigerating Machinery fitted *no*

Is Electric Light fitted *no*

3c.—Description of Engines

Compound

No. of Cylinders *2* No. of Cranks *2*

16' 3 1/2" Length of Stroke *24"* Revs. per minute *105* Dia. of Screw shaft *as per rule 7.2* Lgth. of stern bush *2'-5"*

as per rule 6 5/8 Dia. of Crank shaft journals *as per rule 6.9* Dia. of Crank pin *7"* Size of Crank webs *9 1/2" x 4 1/2"* Dia. of thrust shaft under

as fitted 6 5/8 Dia. of screw *8'-6"* Pitch of screw *11-3"* No. of blades *4* State whether moveable *no* Total surface *285*

1 Diameter of ditto *7 3/8* Stroke *13"* Can one be overhauled while the other is at work *✓*

1 Diameter of ditto *3"* Stroke *13"* Can one be overhauled while the other is at work *✓*

1 Sizes of Pumps *5 1/4 x 3 1/2 x 5* No. and size of Suctions connected to both Bilge and Donkey pumps

Four 2" dia In Holds, &c. *Two in fore hold 2" dia.*

for tank 2" dia

ons 1 sizes 3" Connected *no* to circulating pump *no* Is a separate donkey suction fitted in Engine room & size *4 1/2" 2"*

suction pipes fitted with roses *no* Are the roses in Engine room always accessible *no* Are the sluices on Engine room bulkheads always accessible *no*

is with the sea direct on the skin of the ship *no* Are they Valves or Cocks *Both*

ficiently high on the ship's side to be seen without lifting the stokehold plates *no* Are the discharge pipes above or below the deep water line *above*

ed with a discharge valve always accessible on the plating of the vessel *no* Are the blow off cocks fitted with a spigot and brass covering plate *no*

carried through the bunkers *no* How are they protected *✓*

cks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times *no*

suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges *no*

tube, propeller, screw shaft, and all connections examined in dry dock *no* Is the screw shaft tunnel watertight *no*

a watertight door *✓* worked from *✓*

3c.— (Letter for record *S*) Total Heating Surface of Boilers *1130 sq* Is forced draft fitted *no*

Description of Boilers *one, cyl. single ended* Working Pressure *140 lbs* Tested by hydraulic pressure to *280 lbs*

1/14 Can each boiler be worked separately *✓* Area of fire grate in each boiler *36 3/4 sq* No. and Description of safety valves to

Spring valves Area of each valve *4.9 sq* Pressure to which they are adjusted *145 lbs* Are they fitted with easing gear *no*

between boilers or uptakes and bunkers or woodwork *no* dia. of boilers *11-6* Length *10-0* Material of shell plates *S*

Range of tensile strength *28/32* Are they welded or flanged *no* Descrip. of riveting: cir. seams *lap* long. seams *lap 4 rows*

t holes in long. seams *1 1/6* Pitch of rivets *4 1/4* Lap of plates *no* width of butt straps *9 3/6*

Strength of longitudinal joint *75* Working pressure of shell by rules *144* Size of manhole in shell *16 x 12*

ring *7 1/2 x 15* No. and Description of Furnaces in each boiler *2 Plain* Material *S* Outside diameter *41 1/2*

part *top 6.5* Thickness of plates *bottom 3/4* Description of longitudinal joint *lap single* No. of strengthening rings *✓*

of furnace by the rules *143* Combustion chamber plates: Material *S* Thickness: Sides *9/16* Back *3/8* Top *3/16* Bottom *3/4*

ditto: Sides *8 3/4* Back *8 3/4* Top *9 1/2 x 8* If stays are fitted with nuts or riveted heads *no* Working pressure by rules *149*

S Diameter at smallest part *1 1/2* Area supported by each stay *72 sq* Working pressure by rules *156* End plates in steam space:

Thickness *2 3/8* Pitch of stays *15 x 15 1/2* How are stays secured *as in rule* Working pressure by rules *144* Material of stays *S*

allest part *2 1/6* Area supported by each stay *232 sq* Working pressure by rules *144* Material of Front plates at bottom *S*

Material of Lower back plate *S* Thickness *2 3/8* Greatest pitch of stays *14 1/2* Working pressure of plate by rules *146*

3 1/4 Pitch of tubes *4 1/2* Material of tube plates *S* Thickness: Front *2 3/8* Back *2 5/8* Mean pitch of stays *17 1/4*

wide water spaces *14 1/2* Working pressures by rules *148* Girders to Chamber tops: Material *S* Depth and

ler at centre *2 3/4 x 5* Length as per rule *26"* Distance apart *9 1/2* Number and pitch of Stays in each *2, 8"*

re by rules *146* Superheater or Steam chest: how connected to boiler *✓* Can the superheater be shut off and the boiler worked

Diameter *✓* Length *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivet

itch of rivets *✓* Working pressure of shell by rules *✓* Diameter of flue *✓* Material of flue plates *✓* Thickness *✓*

rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *✓* How stayed *✓*

re of end plates *✓* Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

DONKEY BOILER— No. *One* Description *Vertical, with cross tubes*
 Made at *Sunderland* By whom made *J. Black* When made *1900* Where fixed *Atk*
 Working pressure *100 lbs* tested by hydraulic pressure to *200 lbs* No. of Certificate *472* Fire grate area *14 1/2* Description of safety valves *4*
 No. of safety valves *one* Area of each *7.07* Pressure to which they are adjusted *100 lbs* If fitted with easing gear *yes* If steam *yes*
 enter the donkey boiler *no* Dia. of donkey boiler *5-0"* Length *9-6"* Material of shell plates *S* Thickness *13/32*
 strength *27/32* Descrip. of riveting long. seams *Lap single* Dia. of rivet holes *1 1/16* Whether punched or drilled *drilled*
 Lap of plating *5 1/4* Per centage of strength of joint *74* Thickness of shell crown plates *9/16* Radius of do. *3-6"* No. of
 Dia. of stays *✓* Diameter of furnace Top *3-10 3/8* Bottom *4-4 3/8* Length of furnace *47"* Thickness of furnace plates *9/16*
 joint *Lap single* Thickness of furnace crown plates *1/4* Stayed by *uptake* Working pressure of sh
 Working pressure of furnace by rules *124* Diameter of uptake *12"* Thickness of uptake plates *3/8* Thickness of water to

SPARE GEAR. State the articles supplied:— *One propeller. Two top end & two bottom
 connecting rod bolts & nuts. Two main bearing bolts. One set crank
 one set pin & big pump valves, assorted bolts & nuts. Iron of valves*

The foregoing is a correct description,
G. S. Grey Engineer Manufacturer. *W. L. Eltringham* for Manufacturer

Dates of Survey while building
 During progress of work in shops— *Eng: 1899 Dec. 22, 1900 Jan. 2, 19 Feb. 6, 8, 12, 15, 18, 21, 24, 27, 28, 29, 30, 31, 1900*
 During erection on board vessel— *Br: 1900 Feb. 1, 5, 9, 12, 20, 22, 27, Apr. 2, 6, 23, 25, 26, 27, May 7, 8, 15, June 1*
 Total No. of visits *36* Is the approved plan of main boiler forwarded here

General Remarks (State quality of workmanship, opinions as to class, &c. *The Machinery of this vessel
 has been constructed under special survey. The materials and
 workmanship are sound and good and under the vessel is
 my opinion to have record of L.M.C. 10.00*

On arrival of the vessel from Holland she was placed in dry dock
 and sea-cocks and propeller shaft & propeller were fitted in
 satisfactory manner. The Engine and boilers having been
 plan the Engine and boiler casing was washed up in a satisfactory
 manner.

This vessel is now laid up at this Port for sale

It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC 10.00.

LD.

8.10.00

The amount of Entry Fee... £ 1 : : :
 Special ... £ 9 12 : : :
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : : :
 When applied for, *5 OCT 1900*
 When received, *10.10.00*

Committee's Minute

Assigned

TUES. 9 OCT 1900

MACHINERY CERTIFICATE
 WRITTEN. 17/10/00

+ LMC 10.00

G. A. Wake & Tom R. W.
 Engineer Surveyor to Lloyd's Register of British & Foreign



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 Foundation

Certificate (if required) to be sent to Newcastle-on-Tyne.