

REPORT ON MACHINERY.

MUN. AUG 26 1901

Port of *Newcastle*

Received at London Office **MON. 2 JUL 1900**

No. in Survey held at *Wallsend*

Date, first Survey *April 25 1900* Last Survey *June 6 1900.*

on the *(Austrian Lloyd's 5100 62)*

Tons { Gross
Net

Built at _____ By whom built _____ When built _____

Engines made at _____ By whom made _____ when made _____

Motors made at *Wallsend* By whom made *Wallsend Shipway Co* when made *1900-*

Registered Horse Power _____ Owners _____ Port belonging to _____

Net Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cranks	Lgth. of stern bush
as per rule	as per rule	as per rule	as per rule		
as fitted	as fitted	as fitted	as fitted		
Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under		
Dia. of screw	Pitch of screw	No. of blades	State whether moveable	Total surface	
of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps			
Engine Room	In Holds, &c.				

of bilge injections sizes _____ Connected to condenser, or to circulating pump _____ Is a separate donkey suction fitted in Engine room & size _____

all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

all connections with the sea direct on the skin of the ship Are they Valves or Cocks

they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line

they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate

if pipes are carried through the bunkers How are they protected

all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

the stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight

fitted with a watertight door worked from _____

BOILERS, &c.—

(Letter for record *S*) Total Heating Surface of Boilers *7690 sq ft* Is forced draft fitted _____

and Description of Boilers *3 Single ended, mult.* Working Pressure *200 lb* Tested by hydraulic pressure to _____

of test Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of safety valves to _____

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

least distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers *15-6* Length *12-0* Material of shell plates *Steel*

ness *1/2* Range of tensile strength *29-32* Are they welded or flanged *No* Descrip. of riveting: cir. seams *TR lap* long. seams *DBS, TR*

ter of rivet holes in long. seams *1/2* Pitch of rivets *9/2* Lap of plates or width of butt straps *2 2/4*

antages of strength of longitudinal joint rivets *94-0* Working pressure of shell by rules *218 lb* Size of manhole in shell *16x12*

of compensating ring *8x1 1/2* No. and Description of Furnaces in each boiler *3 Brightons* Material *Steel* Outside diameter *45 3/4*

of plain part top _____ bottom _____ Thickness of plates crown *5* bottom *8* Description of longitudinal joint *welded* No. of strengthening rings *two*

ing pressure of furnace by the rules *205 lb* Combustion chamber plates: Material *Steel* Thickness: Sides *5/8* Back *5/8* Top *5/8* Bottom *11/16*

of stays to ditto: Sides *8x8* Back *8x8* Top *8x7 5/8* If stays are fitted with nuts or riveted heads _____ Working pressure by rules *221 lb*

ial of stays *Steel* Diameter at smallest part *1 9/16* Area supported by each stay *64* Working pressure by rules *293 lb* End plates in steam space: _____

ial *Steel* Thickness *1 1/2* Pitch of stays *16x15 1/2* How are stays secured *DN+W* Working pressure by rules *200 lb* Material of stays *Steel*

ter at smallest part *2 3/2* Area supported by each stay *248* Working pressure by rules *205 lb* Material of Front plates at bottom *Steel*

ess *15/16* Material of Lower back plate *Steel* Thickness *15/16* Greatest pitch of stays *13 1/2* Working pressure of plate by rules *281 lb*

er of tubes *2 1/2* Pitch of tubes *3 3/4 x 3 3/4* Material of tube plates *Steel* Thickness: Front *3/2* Back *3/4* Mean pitch of stays *7 3/4*

across wide water spaces *13 1/2* Working pressures by rules *200 lb* Girders to Chamber tops: Material *Steel* Depth and _____

as of girder at centre *9 1/2 x 1/2 2 plates* Length as per rule *34 5/8* Distance apart *8* Number and pitch of Stays in each *3-7 5/8*

ing pressure by rules *209 lb* Superheater or Steam chest; how connected to boiler *NONE* Can the superheater be shut off and the boiler worked _____

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

Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____

ned with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____

g pressure of end plates: _____ Area of safety valves to superheater _____ Are they fitted with easing gear _____

WS62-0105



DONKEY BOILER— No. 1 Description Single ended, milt, 2 Deighton's furnaces.
 Made at Wallsend By whom made Wallsend Shipway & Co When made 1900 Where fixed
 Working pressure 180 7/8 tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler
 Dia. of donkey boiler 11-6 Length 10-2 1/2 Material of shell plates S2-ee2 Thickness 3/32 Range of tensile strength 28-32 Descrip. of riveting long seams DBS, T T Dia. of rivet holes 1 1/8 Whether punched or drilled drilled Pitch of rivets Y
 Butt straps 1 1/2 Per centage of strength of joint Rivets 102 Thickness of shell end plates 1 Radius of do. Pitch No. of Stays to do. 16x16
 Dia. of stays 2 1/2 Diameter of furnace Top 40 3/8 Bottom 27 1/2 Length of furnace 6-0 Thickness of furnace plates 9/8 Description of joint welded Thickness of comb. chamber plates 9/16 & 1/16 Stayed by Steel Stays 1 1/2 dia pitch Y-Y 1/2 Working pressure of shell by rules 187 7/8
 Working pressure of furnace by rules 204 7/8 Diameter of water tubes 3 Thickness of water plates F 29, B 4 Thickness of stay tubes 5/16

SPARE GEAR. State the articles supplied:—

FOR THE WALLSEND SLIPWAY & ENGINEERING CO., LIMITED.

The foregoing is a correct description, June 26/00
 Manufacturer. W. Lloyd

MANAGING DIRECTOR.

Dates of Survey { During progress of work in shops - - 1900 After: May 29, June 6, 7, 8
 while building { During erection on board vessel - -
 Total No. of visits 5

Is the approved plan of main boiler forwarded herewith yes
 " " " donkey " " " yes

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

These three main boilers and one donkey boiler have been so far constructed under special survey, the workmanship is sound and good. The combustion chambers have been riveted up, but the other parts of the boilers have only been fitted together & bolted up. The boilers have now been taken apart & shipped to Trieste where the boilers will be completed.

The amount of Entry Fee... £
 Special £ 15 14 } When applied for, 30 JUN 1900
 Donkey Boiler Fee £ }
 Travelling Expenses (if any) £ } When received, 1 August 1900

Committee's Minute

TUES. AUG 27 1901

FRI. MAR 7 1902

Assigned



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

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