

Received at London Office **TUES. 10 DEC 1907**No. in Survey held at
Reg. Book.

Walsend on Tyne

Date, first Survey May 29 '06

Last Survey 29 Nov 1907

on the

Ss Ganelon

(Number of Visits 47)

Tons { Gross 26.74
Net 3.654
When built 1904

Master

Built at Newcastle

By whom built Swan Hunter & Co Ltd

Engines made at

Walsend

By whom made

Walsend Slipway & Eng Works when made 1904

Boilers made at

By whom made

when made 1904

Registered Horse Power

Owners Roland Line Acton Geo

Port belonging to Bremen

Nom. Horse Power as per Section 28 556

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines In Cp'd

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 28" 46" 47" Length of Stroke 54" Revs. per minute 64

Dia. of Screw shaft as per rule 15.9 Material of 8

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 Yes

If two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush 59.2

Dia. of Tunnel shaft as per rule 14.25

Dia. of Crank shaft journals as per rule 14.9

Dia. of Crank pin 15.4

Size of Crank webs 41 x 10.2

Dia. of thrust shaft under

collars 15.4

Dia. of screw 19.3

Pitch of Screw 19.8

No. of Blades 4

State whether moveable 400 Total surface 116 sq

No. of Feed pumps 2 Diameter of ditto 8 x 10.2 Stroke 21

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2

Diameter of ditto 5

Stroke 26

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 4

Sizes of Pumps 9 x 10 x 10, 8 x 5.2 x 8, 8 x 4

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

In Engine Room 4 of 3.2

In Holds, &c. 2 of 3.2 in each hold

No. of Bilge Injections 1 sizes 9 Connected to condenser, or to circulating pump Cp

Is a separate Donkey Suction fitted in Engine room & size 3.2

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

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 about

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 none

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 18/12/06 of Stern Tube 18/12/06 Screw shaft and Propeller 18/12/06

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from top platform

BOILERS, &c.—(Letter for record B) Manufacturers of Steel J Spencer & Sons Ltd

Total Heating Surface of Boilers 7785 sq Is Forced Draft fitted Yes No. and Description of Boilers 3 S E

Working Pressure 180 lb

Tested by hydraulic pressure to 360 lb

Date of test 3-9-06

No. of Certificate 4305

Can each boiler be worked separately Yes

Area of fire grate in each boiler 63.8 sq

No. and Description of Safety Valves to

each boiler 2 Spring

Area of each valve 12.5

Pressure to which they are adjusted 185

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 2 ft

Mean dia. of boilers 15.6

Length 11.9

Material of shell plates S

Thickness 25/16

Range of tensile strength 28-32

Are the shell plates welded or flanged Ends

Descrip. of riveting: cir. seams 2.7 lap

long. seams 2.7

Diameter of rivet holes in long. seams 1 1/16

Pitch of rivets 9 3/4

Lap of plates or width of butt straps 20 5/16

Per centages of strength of longitudinal joint

rivets 88.9

plate 85.25

Working pressure of shell by rules 204

Size of manhole in shell 16 x 12

Size of compensating ring McNeils

No. and Description of Furnaces in each boiler 3 Morrison

Material S

Outside diameter 4 13/16

Length of plain part top

Thickness of plates crown

5/8

Description of longitudinal joint weld

No. of strengthening rings

Working pressure of furnace by the rules 202

Combustion chamber plates: Material S

Thickness: Sides 5/8

Back 5/8

Top 5/8

Bottom 1

Pitch of stays to ditto: Sides 88 x 7 1/2

Back 8 x 7 1/2

Top 7 1/2 x 7 1/2

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 220 lb

Material of stays S

Diameter at smallest part 1.45

Area supported by each stay 61

Working pressure by rules 190

End plates in steam space:

Material S

Thickness 1 1/2

Pitch of stays 17 x 15 1/2

How are stays secured 2 nuts

Working pressure by rules 251

Material of stays S

Diameter at smallest part 6.3

Area supported by each stay 263

Working pressure by rules 240

Material of Front plates at bottom S

Thickness 1

Material of Lower back plate S

Thickness 3/2

Greatest pitch of stays 15

Working pressure of plate by rules 222 1/2

Diameter of tubes 22

Pitch of tubes 32 x 32

Material of tube plates S

Thickness: Front 1

Back 3/4

Mean pitch of stays 7 1/2

Pitch across wide water spaces 13

Working pressures by rules 212

Girders to Chamber tops: Material S

Depth and

thickness of girder at centre 9 1/2 x 12

Length as per rule 31 7/8

Distance apart 7 1/2

Working pressure by rules 212

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

Measure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Foundation

Foundation

Foundation

Foundation

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 or Center 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:— 1 Set connecting rod bolts & nuts. two main bearing bolts & nuts. 1 set coupling bolts & nuts. 1 set valves for her's pump. 1 set helge pump valves. propeller blades. propeller shaft. nut & bolts & assorted iron.

The foregoing is a correct description,

M. M. Marj.

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1906 May 29 June 17 July 10 27 Aug 1 9 15 22 28 29 27 28 31 Sep 1 13 20 27 28 Oct 4 5 10 16 18 29 Nov 5 7 28 Dec 2 4 7 11 18
During erection on board vessel - 1907 Jan 16 10 31 Feb 12 19 22 Nov 6 13 21 26 29
Total No. of visits 47

Is the approved plan of main boiler forwarded herewith yes.

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 1/5/06 Slides 1/5/06 Covers 1/5/06 Pistons 22.8.06 Rods 22.8.06
Connecting rods 22.9.06 Crank shaft 28.9.06 Thrust shaft 18.10.06 Tunnel shafts 16.10.06 Screw shaft 16.10.06 Propeller 16.10.06
Stern tube 22.8.06 Steam pipes tested 2nd Oct. 06 Engine and boiler settings 18/12/06 Engines holding down bolts 18.12.06
Completion of pumping arrangements 29.11.07 Boilers fired 18.12.06 Engines tried under steam 22.2.07
Main boiler safety valves adjusted 22.2.07 Thickness of adjusting washers PB. 3/4 CB 3/4 4 1/2 5 1/2 3 1/2 4
Material of Crank shaft S Identification Mark on Do. B J F Material of Thrust shaft S Identification Mark on Do. B J F
Material of Tunnel shafts S Identification Marks on Do. B J F Material of Screw shafts S Identification Marks on Do. B J F
Material of Steam Pipes W. I. Test pressure 540

General Remarks (State quality of workmanship, opinions as to class, &c. Machinery and boilers built under special survey; materials and workmanship good. Engines and boilers examined under full steam & found satisfactory. In my opinion this vessel is eligible for the record of 6/07. being 6 mos. after date of launch.

It is submitted that this vessel is eligible for THE RECORD.

L. M. C. 11-07.

ELEC. LIGHT.

F. D.

SR 10.12.07

SR 10.12.07

The amount of Entry Fee.. £ 3 : : When applied for, 9 DEC 1907
Special .. £ 47. 16 : :
Donkey Boiler Fee .. £ : : When received, 11.12.07
Travelling Expenses (if any) £ : : 10.12.1907

S. Y. Ludlay

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

Committee's Minute

TUES. 10 DEC 1907

FRI. 10 JUL 1908

Assigned

+ L.M.C. 11.07
elec. light & D.

MACHINERY CERTIFICATE WRITTEN.



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