

REPORT ON MACHINERY.

No. 1815

Port of *Amsterdam*

Received at London Office *MON. 14 MAR 1904*

Survey held at *Leiden*

Date, first Survey *25 January* Last Survey *5th March 1904.*

(Number of Visits *5*)

on the *New donkey boiler for Mr. Hughes & Co. Ltd. 251*

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

Built at *✓*

By whom built *✓*

when made *✓*

By whom made *✓*

when made *✓*

By whom made *✓*

Registered Horse Power *✓*

Owners *✓*

Port belonging to *✓*

Horse Power as per Section 28 *✓*

Is Refrigerating Machinery fitted *✓*

Is Electric Light fitted *✓*

GINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	No. of Cylinders	No. of Cranks
			^{as per rule} _{as fitted}	Material of [✓] screw shaft
the screw shaft fitted with a continuous liner the whole length of the stern tube			Is the after end of the line made water tight	
the propeller boss			If the liner is in more than one length are the joints burned	
between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive			If the liner does not fit tightly at the part	
are fitted, is the shaft lapped or protected between the liners			Length of stern bush	
^{as per rule} _{as fitted}	Dia. of Crank shaft journals ^{as per rule} _{as fitted}	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

Are 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

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

Are 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

Are 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

Are that 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

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

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

Is it fitted with a watertight door worked from

BOILERS, &c.—

(Letter for record

) Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test	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 they 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	
Percentage of strength of longitudinal joint	^{rivets} _{plate}	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} _{bottom}	Thickness of plates ^{crown} _{bottom}	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
Material	Thickness	Pitch of stays	How are stays secured
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
Diameter of tubes	Pitch of tubes	Material of tube plates	Thickness: Front Back
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	
Pitch of rivets	Working pressure of shell by rules	Diameter of flue	Material of flue plates
Thickness	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	

DONKEY BOILER— No. *69* Description *Steel Vertical boiler (Galloway type).*
 Made at *Sliden* By whom made *H. Klootwijk* When made *1904* Where fixed *—*
 Working pressure *100 lb.* tested by hydraulic pressure to *100 lb.* No. of Certificate *69* 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 *9'-0"* Length *11'-0"* Material of shell plates *steel* Thickness *1/2"* Range of tensile strength *28-31 1/2* Descrip. of riveting long. seams *Lap double riveted* Dia. of rivet holes *7/8"* Whether punched or drilled *drilled* Pitch of rivets *2 1/2"*
 Lap of plating *4 1/8"* Per. centage of strength of joint *89.5%* Rivets *16-18* Thickness of shell crown plates *5/16"* Radius of do. *4'-6"* No. of Stays to do. *6*
 Dia. of stays *1 1/4"* Diameter of furnace Top *5'-9"* Bottom *6'-4 1/2"* Length of furnace *7'-6"* Thickness of furnace plates *1/2"* Description of joint *Lap* Thickness of furnace crown plates *2 7/8"* Stayed by *Six 2 1/4" stays* Working pressure of shell by rules *100 lb.*
 Working pressure of furnace by rules *—* Diameter of uptake *21"* Thickness of uptake plates *1/2"* Thickness of water tubes *9 x 3/8"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops—
 During erection on board vessel—
 Total No. of visits

from 25th of January till 5th of March

Five

Is the approved plan of main boiler forwarded herewith

donkey „

Yes

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

This donkey boiler has been made according to the Society's rules & approved plan, which is now in London Office. Material has been tested as required by rules, and the workmanship throughout good. Boiler tested to 200 lbs. high pressure was found to be tight in every respect and no setting whatever. Boiler marked as under. This boiler is intended to be placed on board the S.S. No. 251 building by Messrs. Wigham & Capelle & Co. Yssel.

N^o 69
 LLOYDS TEST
 200 lbs
 J.B.S. 5-3-04

The amount of Entry Fee. £ : : When applied for,
 Special £ : : *March 1904*
 Donkey Boiler Fee £ *2* : *2* : When received,
 Travelling Expenses (if any) £ *2* : *9* : *March 1904*

Committee's Minute

FRI. 8 APR 1904

Assigned

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



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