

REPORT ON MACHINERY.

THUR, 21 APR 1898

Port of WEST HARTLEPOOL

Received at London Office 18

Survey held at WEST HARTLEPOOL

Date, first Survey 17th June 1897 Last Survey 12th April 1898

(Number of Visits 62)

on the

Screw Steamer "Cannibal"

Tons Gross 1649 Net 1044

Built at

B. D. Pool

By whom built

L. D. Gray & Co. Ld.

When built

1898

Made at

B. D. Pool

By whom made

Central Marine Engineering Co. Ltd.

When made

1898

Made at

Do

By whom made

Do

Do

When made

1898

Horse Power

150

Owners

H. A. Kiebohn & Co. Ltd.

Port belonging to

Helsingborg

Horse Power as per Section 28

150

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Diameter of Cylinders 19.30 1/2 x 30 1/2 Length of Stroke 36 Revolutions per minute 65 Diameter of Screw shaft as per rule 9.625
 Diameter of Tunnel shaft as fitted 9 Diameter of Crank shaft journals 9 1/2 Diameter of Crank pin 9 1/2 Size of Crank webs 5 1/2 x 1 1/2
 Diameter of screw 14.0 Pitch of screw Differential No. of blades 10 State whether moveable No Total surface 62 1/2
 Number of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 24 Can one be overhauled while the other is at work Yes
 Number of Bilge pumps 2 Diameter of ditto 3 Stroke 24 Can one be overhauled while the other is at work Yes
 Number of Donkey Engines 2 Sizes of Pumps 3 1/2 x 5 x 8 P. 8 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room Space 2 1/2" & one 2 1/4" In Holds, &c. Bilge Suctions 2 1/4" on both sides of both holds & one 2 1/2" in the after well.
 Bilge injections 1 sizes 5" Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size 2 1/2" Yes
 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
 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 Below
 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
 How are the pipes protected None
 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
 Were stern tube, propeller, screw shaft, and all connections examined in dry dock No Is the screw shaft tunnel watertight Yes
 Is it fitted with a watertight door Yes worked from Upper Platform

BOILERS, &c.—(Letter for record 8) Total Heating Surface of Boilers 2140 Is forced draft fitted No
 Number and Description of Boilers One Single ended Working Pressure 160 Tested by hydraulic pressure to 330
 Date of test 12.9.97 Can each boiler be worked separately Yes Area of fire grate in each boiler 57 1/2 No. and Description of safety valves to boiler Two Spring Area of each valve 8.39 Pressure to which they are adjusted 160 lb Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2.0 Mean diameter of boilers 16.6
 Thickness of shell plates 1 1/4 Thickness of rivets 8 1/2 Description of riveting: circum. seams None long. seams 80% Strapped
 Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 1/2 Width of butt straps 18 1/2
 Percentages of strength of longitudinal joint rivets 86.5 Working pressure of shell by rules 160.8 Size of manhole in ends 16 x 12
 Diameter of compensating ring 22 1/2 x 20 No. and Description of Furnaces in each boiler 3 Purves Material Steel Outside diameter 46 1/2
 Thickness of plain part top 6.0 bottom 6.7 1/2 Thickness of plates crown 1 1/2 bottom 1 1/2 Description of longitudinal joint Bolted No. of strengthening rings 4
 Working pressure of furnace by the rules 162 Combustion chamber plates: Material Steel Thickness: Sides 1 3/32 Back 1 3/32 Top 1 3/32 Bottom 2 3/32
 Number of stays to ditto: Sides 8 1/2 Back 8 1/2 Top 8 If stays are fitted with nuts or riveted heads None Working pressure by rules 163
 Material of stays Steel Diameter at smallest part 1.38 Area supported by each stay 740 Working pressure by rules 161 End plates in steam space: Material Steel Thickness 1 3/32 Pitch of stays 23 1/2 How are stays secured Bolted Working pressure by rules 163 Material of stays Steel
 Diameter at smallest part 3.16 Area supported by each stay 4360 Working pressure by rules 171 Material of Front plates at bottom Steel
 Thickness 1 1/2 Material of Lower back plate Steel Thickness 1 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 170
 Diameter of tubes 3 1/4 Pitch of tubes 1 1/2 Material of tube plates Steel Thickness: Front 1 1/2 Back 3/32 Mean pitch of stays 9
 Distance across wide water spaces 14 1/2 Working pressures by rules 166, 190 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2 x 1 1/4 Length as per rule 27 Distance apart 7 1/2 Number and pitch of Stays in each 8 1/2 pitch
 Working pressure by rules 180 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
 Fitted 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

DONKEY BOILER— Description *Slakes patent*
Made at *Middlesbrough* By whom made *James Bealparth & Co* When made *1897* Where fixed *Stoke*
Working pressure *80* tested by hydraulic pressure to *160* No. of Certificate *1566* Fire grate area *21 1/2* Description of safety valves *Two*
No. of safety valves *2* Area of each *7.07* Pressure to which they are adjusted *84 lb* If fitted with easing gear *yes* If steam from m
enter the donkey boiler *no* Diameter of donkey boiler *6.6* Length *18.6* Material of shell plates *Steel* Thickn
Description of riveting long. seams *Lap double* Diameter of rivet holes *1 1/2* Whether punched or drilled *Punched* Pitch of
Lap of plating *1 1/2* Per centage of strength of joint *70.3* Thickness of shell crown plates *3/16* Radius of do *stem* No. of Stays
Dia. of stays *1* Diameter of furnace Top *2.6* Bottom *4.4* Length of furnace *5.4* Thickness of furnace plates *3/16*
joint *Lap Single* Thickness of furnace crown plates *1 1/2* Stayed by *bished to 3.9 rad* Working pressure of shell by
Working pressure of furnace by rules *86 lb* Diameter of uptake *2 1/2* Thickness of uptake plates *1 1/2* Thickness of uptake tubes

SPARE GEAR. State the articles supplied:— *2 main bearing bolts & nuts, 2 top end*
and nuts, 2 bottom end bolts & nuts, 1 set of shaft
bolts & nuts, 1 set of feed valves, 1 set of tilge valves,
of Springs for M.P. piston, 1 propeller, nuts, bolts & riv
The foregoing is a correct description,

Manufacturers of Engines & Boilers only *Williams & Co*

Dates of Survey { During progress of work in shops— 1897 June 17, 18, 24 July 1, 2, 26, 28, 29 Aug. 4, 6, 14, 15, 16, 17, 20, 21, 22, 23, 25, 28, 29, 30
while building { During erection on board vessel — 28, 29, 30, 1, 4, 5, 8, 10, 11, 12, 15, 16, 17, 19, 20, 22, 23, 24, 26, Dec. 1, 1898 Jan. 8, 31, Feb. 3, 8
Total No. of visits *62*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery has been*
Specially Inspected during construction the material
and workmanship good & renders the vessel eligible
in our opinion to have the Record *L.M.C. 4.98*
Register Book of the Society.

It is submitted that
this vessel is eligible for
THE RECORD. *L.M.C. 4.98*

LL
22/4/98

The amount of Entry Fee... £ *2* : : When applied for,
Special ... £ *22* : *10* : *19.4.98*
Donkey Boiler Fee ... £ *MACHINES* : : When received,
Travelling Expenses (if any) £ *WRITTEN* : : *19.4.98*
Committee's Minute *FRI. 22 APR 1898*
Assigned *+ L.M.C. 4.98*

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