

REPORT ON MACHINERY.

No. 48829

Port of Newcastle

THUR. 18 MAY 1905

Received at London Office

19

No. in Survey held at Newcastle
Reg. Book.Date, first Survey July 13thLast Survey May 5 1905(Number of Visits 38)Gross 3291Net 2106When built 1905

on the

S/S AncroftMaster C. W. SteelBuilt at NewcastleBy whom built Swan Hunter & Co. Ltd.Richd. & Co. Ltd.Engines made at NewcastleBy whom made N. E. & N. Eng. Co. Ltd.when made 1905Boilers made at "By whom made "when made 1905

Registered Horse Power

Owners Adam Bros. Ltd.Port belonging to NewcastleNom. Horse Power as per Section 28 308Is Refrigerating Machinery fitted noIs Electric Light fitted no

ENGINES, &c.—Description of Engines

Tri C.p.dNo. of Cylinders 3No. of Cranks 3Dia. of Cylinders 23" 38" 64"Length of Stroke 45"Revs. per minute 65

Dia. of Screw shaft

as per rule 13.19"Material of IronIs 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 ✓

If two

liners are fitted, is the shaft lapped or protected between the liners ✓Length of stern bush 4' 11"Dia. of Tunnel shaft as per rule 11.8"Dia. of Crank shaft journals as per rule 12.39"as fitted 12.34"Dia. of Crank pin 12 3/4"Size of Crank webs 24 1/2 x 8 1/4"

Dia. of thrust shaft under

collars 12 3/4" Dia. of screw 16' 3" Pitch of screw 16' 3"No. of blades 4State whether moveable fTotal surface 83 fNo. of Feed pumps 2Diameter of ditto 3 1/4"Stroke 2 ft.Can one be overhauled while the other is at work yesNo. of Bilge pumps 2Diameter of ditto 3 1/2"Stroke 2 ft.Can one be overhauled while the other is at work yesNo. of Donkey Engines 2Sizes of Pumps 8" x 10 x 10" 7" 6" x 4 x 6"

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

In Engine Room 4 of 3 1/2"In Holds, &c. 2 of 3 1/2" to each compartmenttunnel well 2 1/2"No. of bilge injections 1 sizes 4"Connected to condenser, or to circulating pump C.R.Is a separate donkey suction fitted in Engine room & size yesAre all the bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible ✓Are all connections with the sea direct on the skin of the ship yesAre they Valves or Cocks bothAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the discharge pipes above or below the deep water line aboveAre they each fitted with a discharge valve always accessible on the plating of the vessel yesAre the blow off cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers noneHow are they protected ✓Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight yesIs it fitted with a watertight door yesworked from top platform

BOILERS, &c.—

(Letter for record S)Total Heating Surface of Boilers 4770 fIs forced draft fitted noNo. and Description of Boilers 2 Cyld. Marine TypeWorking Pressure 180 lbsTested by hydraulic pressure to 360 lbsDate of test 17-2-05Can each boiler be worked separately yesArea of fire grate in each boiler 65 f

No. and Description of safety valves to

each boiler 2 SpringArea of each valve 8.29Pressure to which they are adjusted 185 lbAre they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 2 feetMean dia. of boilers 15' 6 3/8"Length 10' 6"Material of shell plates SThickness 1 3/32" Range of tensile strength 29Are they welded or flanged ends noDescrip. of riveting: cir. seams d. r. laplong. seams d. butt. StrapsDiameter of rivet holes in long. seams 1 1/16"Pitch of rivets 8"Lap of plates or width of butt straps 20 1/2"

Per centages of strength of longitudinal joint

rivets 85.6plate 85.8 Working pressure of shell by rules 212 lbSize of manhole in shell 16 x 12"Size of compensating ring flangedNo. and Description of Furnaces in each boiler 3 Deight'sMaterial SOutside diameter 49"Length of plain part topThickness of plates bottom19 1/2"Description of longitudinal joint weldedNo. of strengthening rings —Working pressure of furnace by the rules 192Combustion chamber plates: Material SThickness: Sides 19 1/2"Back 19 1/2"Top 19 1/2"Bottom 1 1/2"Pitch of stays to ditto: Sides 8" x 8"Back 8" x 8"Top 8" x 7"If stays are fitted with nuts or riveted heads nutsWorking pressure by rules 190 lbMaterial of stays SDiameter at smallest part 1' 4 1/8"Area supported by each stay 64"Working pressure by rules 188End plates in steam space: SMaterial SThickness 1Pitch of stays 16 x 15 3/4"How are stays secured d nutsWorking pressure by rules 185Material of stays SDiameter at smallest part 2.5"Area supported by each stay 252Working pressure by rules 200Material of Front plates at bottom SThickness 1"Material of Lower back plate SThickness 15 1/16"Greatest pitch of stays 14 1/2"Working pressure of plate by rules 195Diameter of tubes 3 1/4"Pitch of tubes 4 1/2 x 4 3/8"Material of tube plates SThickness: Front 1"Back 1 1/8"Mean pitch of stays 8.78"Pitch across wide water spaces 14 1/2"Working pressures by rules 210Girders to Chamber tops: Material S

Depth and

thickness of girder at centre 8 1/4 x 1 1/2"Length as per rule 29"Distance apart 8"Number and pitch of Stays in each 2 of 4"Working pressure by rules 195Superheater 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 195

Diameter of flue

Material of flue plates

Thickness

If stiffened 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

yesW832 - COTK

SPARE GEAR. State the articles supplied:— 1 Set connecting rod bolts & nuts, 2 main bearing bolts and nuts, 1 set of coupling bolts & nuts, 1 set feed and bilge pump valves, propeller, nuts, bolts and assorted iron.

Pr. G. A. Thompson

Is the approved plan of main boiler forwarded herewith Yes

“ ” ” *donkey* ” ” *yes*

General Remarks (State quality of workmanship, opinions as to class, &c. Machinery and boilers constructed under special Survey. Materials and workmanship good. Engines and boilers examined under full steam and found satisfactory. In my opinion this vessel is now eligible for the record of + L. M. C. 5705 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD HLM.C. 5.05

Recd.
 18.5.05

The amount of Entry Fee..	£ 3 : . :	When applied for, 17 MAY 1905
Special	£ 35 : 4 :	
Donkey Boiler Fee	£ . : . :	
Travelling Expenses (if any) £	. : . :	
		When received, 29/5/05

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

Committee's Minute

FRI 19 MAY 1905

Assigned

+ lmes. os-

MACHINERY CERTIFICATE
WRITTEN

© 2020

Lloyd's Register
Foundation