

REPORT ON MACHINERY.

No. 24041

Received at London Office

4. of writing Report 10 When handed in at Local Office 3.8 to 11 Port of Hull

in Survey held at Hull & Selby Date, First Survey Dec 20th Last Survey Aug 3rd 1911

Book. on the Skel. Sc. K. Xylophia (Number of Visits 21) Tons { Gross 262 Net 103

ter Built at Selby By whom built Lockhart & Sons When built 1911

ines made at Hull By whom made C. D. Holmes & Co. Ltd when made 1911

lers made at South Shields By whom made J. J. Eltringham & Co when made 1911

istered Horse Power Owners Southern Steam Trawling Co Port belonging to Melford

n. Horse Power as per Section 28 76 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

. of Cylinders 12" - 21" - 34" Length of Stroke 24 Revs. per minute 111 Dia. of Screw shaft as per rule 7.04 as fitted 7.375 Material of screw shaft J

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

the propeller boss Yes If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part

ween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive — If two

ers are fitted, is the shaft lapped or protected between the liners — Length of stern bush 36"

a. of Tunnel shaft as per rule 6.26 as fitted 6.45 Dia. of Crank shaft journals as per rule 6.54 as fitted 6.875 Dia. of Crank pin 6.875 Size of Crank webs 13" x 4 7/8" Dia. of thrust shaft under

lars 6.875 Dia. of screw 8" - 7 1/2" Pitch of Screw 10' 3 1/2" 11' 3" No. of Blades 4 State whether moveable No Total surface 27.5 ft

. of Feed pumps 1 Diameter of ditto 2 3/8" Stroke 14 1/2" Can one be overhauled while the other is at work —

. of Bilge pumps 1 Diameter of ditto 2 3/8" Stroke 14 1/2" Can one be overhauled while the other is at work —

. of Donkey Engines One Sizes of Pumps 5" x 3 1/2" x 6" Duplex No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Two 2", One 2 1/2", One 3" In Holds, &c. One 2", and Ejector suction

. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 2 1/2" 6"

re 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

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

re 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 above

re 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 Hold Suction How are they protected wood casing

re all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

re 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 29.5.11 of Stern Tube 29.5.11 Screw shaft and Propeller 29.5.11

s the Screw Shaft Tunnel watertight None Is it fitted with a watertight door — worked from —

OILERS, &c.—(Letter for record T) Manufacturers of Steel

Total Heating Surface of Boilers 1384 ft Is Forced Draft fitted No No. and Description of Boilers One cyl. Mult. S. Engine

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 31.5.11 No. of Certificate 8149

Can each boiler be worked separately — Area of fire grate in each boiler 42 ft No. and Description of Safety Valves to

each boiler Two Spring Area of each valve 3.97 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 6" Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: str. seams

long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Per centages of strength of longitudinal joint rivets 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 Thickness of plates crown Description of longitudinal joint No. of strengthening rings

bottom 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 End plates in steam space:

Material Thickness Pitch of stays How stays secured Working pressure by rules Material of stays

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 Working pressure of plate by rules

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

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

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

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

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Lloyd's Register Foundation

WEB-FRAME

No

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Size

BRACKET

Web Fr

BULKHEAD

W.T.BUL

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PART

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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 of writing

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 can enter 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

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

Dates of survey

SPARE GEAR.

State the articles supplied:

Two each top and bottom end connecting rod, and main bearing bolts and nuts, one set coupling bolts and nuts, one set each feed and bilge pump valves, Iron various sizes, a quantity of assorted bolts and nuts, 6 condense and six boiler tubes etc

The foregoing is a correct description,

p. pro CHARLES D. HOLMES & Co. LTD.

Manufacturer.

Signature of Manufacturer

DIRECTOR

Dates

of Survey

while

building

During progress of work in shops -

During erection on board vessel -

Total No. of visits

1910. Dec 21. 1911. Apr 6. 10 May 3. 8. 10. 15. 18. 29. Jun 7. 13. 17 July 7. 18. 19

July 25. 26. 27. 28. Aug 2. 3.

21.

Is the approved plan of main boiler forwarded herewith

No

" " " donkey " " "

No

Dates of Examination of principal parts—Cylinders 7.6.11 Slides 4.4.11 Covers 4.4.11 Pistons 7.7.11 Rods 7.7.11

Connecting rods 6.4.11 Crank shaft 15.5.11 Thrust shaft 7.6.11 Tunnel shafts Screw shaft 18.5.11 Propeller 18.5.11

Stern tube 18.5.11 Steam pipes tested 27.7.11 Engine and boiler seatings 18.7.11 Engines holding down bolts 28.7.11

Completion of pumping arrangements 2.8.11 Boilers fixed 28.7.11 Engines tried under steam 28.7.11

Main boiler safety valves adjusted 28.7.11 Thickness of adjusting washers 3/8" 3/8"

Material of Crank shaft S Identification Mark on Do. 748.8. Material of Thrust shaft S Identification Mark on Do. 748.8

Material of Tunnel shafts — Identification Marks on Do. — Material of Screw shafts S Identification Marks on Do. 748.8

Material of Steam Pipes Solid drawn copper Test pressure 400 lbs per sq inch

General Remarks (State quality of workmanship, opinions as to class, &c. The engines and boilers of this vessel have been constructed under special supervision in accordance with the Society's Rules, the materials & workmanship are sound and good. The boiler tested by hydraulic pressure, and with the engines secured on board, and tested under steam, they are now in good order and safe working condition, and are respectfully submitted as being eligible in my opinion to be classed with the notation of L.M.C. 8.11 in the Register Book

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 8.11.

Signature of Surveyor

Signature of Engineer

Signature of Committee

Signature of Assigned

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