

REPORT ON MACHINERY.

No. 24041

Received at London Office

of writing Report

10

When handed in at Local Office

3.8 10 11 Port of Hull

in Survey held at Hull & Selby

Date, First Survey Dec 20th

Last Survey Aug 3rd 1911

Book.

(Number of Visits 21)

on the Ship Sc. K. Nylophia

Tons Gross 262

ter

Built at Selby

By whom built Cochrane Sons

When built 1911

ines made at Hull

By whom made C. O. 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, & Co.—Description of Engines

Triple Expansion

No. of Cylinders 3

No. of Cranks 3

o. 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

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 Tunnels 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"

lars 6.875 Dia. of screw 8" - 7 1/2"

Pitch of Screw 10' 3" - 11' 3"

No. of Blades 4

State whether moveable No Total surface 27.5 sq ft

o. of Feed pumps 1

Diameter of ditto 2 7/8" Stroke 14 1/2" Can one be overhauled while the other is at work

o. of Bilge pumps 1

Diameter of ditto 2 7/8" Stroke 14 1/2" Can one be overhauled while the other is at work

o. 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

o. 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

Is the Screw Shaft Tunnel watertight None

Is it fitted with a watertight door

worked from

OILERS, & Co.—(Letter for record 7)

Manufacturers of Steel

Total Heating Surface of Boilers 1384 sq ft

Is Forced Draft fitted No

No. and Description of Boilers One cyl. Mult. S. Embank

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 sq 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 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

crowns 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

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

© 2020 Lloyd's Register 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 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.

Charles D. Holmes
DIRECTOR

Dates of Survey while building
 During progress of work in shops— 1910: Dec 21. 1911: Apr 6. 10 May 3. 8. 10. 15. 18. 29. Jun 7. 13. 17 July 7. 18. 19
 During erection on board vessel— July 25. 26. 27. 28. Aug 2. 3.
 Total No. of visits 21.

Is the approved plan of main boiler forwarded herewith **No**
 " " " donkey " " " "

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. 748.03 Material of Thrust shaft S Identification Mark on Do. 748.03
 Material of Tunnel shafts — Identification Marks on Do. — Material of Screw shafts I Identification Marks on Do. 748.03
 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.**

J.W.D. 4/8/11 J.P.R.

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

The amount of Entry Fee £ 1 : : : When applied for,
 Special £ 6 : 16 : : 3.8.11
 Donkey Boiler Fee £ : : :
 Travelling Expenses (if any) £ : 8 : 2 : 3.18.11

Committee's Minute WED. AUG. 9-1911
 Assigned *Home 8.11*

MACHINERY CERTIFICATE
 WRITTEN



WEB-FRAME No
 WEB-FRAME
 WEB-FRAME
 Size
 BRACKET
 Web Fr
 BULKHEAD
 W.T.BULLHEAD
 COLLISION PART
 LONGITUDINAL
 Are the
 Are the
 FLAT (If Bulkhead)
 GABBO
 State thickness of Bottom
 Write "Bridge Sheer Strake" and "Upper Deck Sheer Strake" opposite the corresponding letter.
 THOLE
 D
 DBI
 I
 PO
 SH
 FO
 S
 F
 I
 Form No. 1A

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)