

REPORT ON MACHINERY

No. 28682

Received at London Office

WED. JUL. 28. 1915

Date of writing Report

When handed in at Local Office

14. 7. 15 Port of Hull

No. in Survey held at Hull

Date, First Survey 25-11-14 Last Survey 6. 7. 1915

Reg. Book.

(Number of Visits 29)

on the steel ssk "AISNE" (C.D.H. 1082)

Tons Gross 315

Net 126

Master

Built at Selby

By whom built Cochrane & Sons

When built 1915

Engines made at Hull

By whom made C. W. Holmes & Co. Ltd.

when made 1915

Boilers made at Hull

By whom made C. W. Holmes & Co. Ltd.

when made 1915

Registered Horse Power

Owners East Riding Fishing Co. Port belonging to Hull

Nom. Horse Power as per Section 28 84

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted yes

ENGINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 13" 23" 37"

Length of Stroke 26"

Revs. per minute

Dia. of Screw shaft as per rule 4.88"

as fitted 8"

Material of screw shaft S

Is 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 yes

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 3' 0"

Dia. of Tunnel shaft as per rule 7.04"

as fitted 7.18"

Dia. of Crank shaft journals as per rule 7.39"

as fitted 7.5"

Dia. of Crank pin 7 1/2"

Size of Crank 4 1/2" x 4 7/8" dia. of thrust shaft under collars 7 1/2"

Dia. of screw 9-7 1/2"

Pitch of Screw 11 feet

No. of Blades 4

State whether moveable no

Total surface 314

No. of Feed pumps 1 Diameter of ditto 2 7/8" Stroke 16" Can one be overhauled while the other is at work

No. of Bilge pumps 1 Diameter of ditto 2 7/8" Stroke 16" Can one be overhauled while the other is at work

No. of Donkey Engines 1 Sizes of Pumps 6" x 3 1/2" x 6"

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

In Engine Room 2-2" One forward, one aft

In Holds, &c. 4-2" After slushwell, Forward

slushwell, Fore hold, 2 1/2" aft from all bilges

No. of Bilge Injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump

Are 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

Are 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 above

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

What pipes are carried through the bunkers Hold Suctions. How are they protected Wood casing

Are all Pipes, Cocks, Valves, and Pumps 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

Dates of examination of completion of fitting of Sea Connections 31. 3. 15. of Stern Tube 31. 3. 15. Screw shaft and Propeller 31. 3. 15.

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door worked from Messrs Stewart & Lloyds

BOILERS, &c.—(Letter for record S)

Manufacturers of Steel

Total Heating Surface of Boilers 1350

Is Forced Draft fitted no

No. and Description of Boilers One single-ended

Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 13. 4. 15. No. of Certificate 3074.

Can each boiler be worked separately

Area of fire grate in each boiler 58 sq

No. and Description of Safety Valves to each boiler 2 Spring

Area of each valve 4.9 sq

Pressure to which they are adjusted 200 lbs. Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 7"

Mean dia. of boilers 13-9 1/2"

Length 10-9"

Material of shell plates S

Thickness 1/4". Range of tensile strength 28 tons

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams DR

long. seams JR 10 B. Diameter of rivet holes in long. seams 1 1/32"

Pitch of rivets 8 1/16"

Lap of plates or width of butt straps 17 1/4"

Per centages of strength of longitudinal joint rivets 85.6. Working pressure of shell by rules 202.

Size of compensating ring 7" x 1 3/32"

No. and Description of Furnaces in each boiler 3 plain

Material S. Outside diameter 3'-4"

Length of plain part top 6'-5" Thickness of plates crown 5/16"

Description of longitudinal joint welded

No. of strengthening rings

Working pressure of furnace by the rules 202. Combustion chamber plates: Material S. Thickness: Sides 23/32"

Back 23/32"

Top 23/32"

Bottom 23/32"

Pitch of stays to ditto: Sides 9x8/8"

Back 8x10/8"

Top 10 1/2 x 8 1/8"

Bottom 10 1/2 x 8 1/8"

Material of stays S. Diameter at smallest part 2.07"

Area supported by each stay 87.3 sq

Working pressure by rules 213. End plates in steam space: Material S. Thickness 1 5/16"

Pitch of stays 20x20"

How are stays secured B.N.W. Working pressure by rules 204. Material of stays S.

Diameter at smallest part 8.76"

Area supported by each stay 400 sq

Working pressure by rules 227. Material of Front plates at bottom S.

Thickness 15/16"

Material of Lower back plate S. Thickness 29/32"

Greatest pitch of stays 14x8"

Working pressure of plate by rules 218.

Diameter of tubes 3 1/2"

Pitch of tubes 5 1/8 x 5"

Material of tube plates S. Thickness: Front 15/16"

Back 7/8"

Mean pitch of stays 10 1/4 x 10"

Pitch across wide water spaces 14"

Working pressures by rules 200. Girders to Chamber tops: Material S. Depth and thickness of girder at centre 11 1/2 x 1 3/4"

Length as per rule 38 7/8"

Distance apart 10 1/8"

Number and pitch of stays in each 3 at 8 1/8"

Working pressure by rules 207. 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

010766-010776-0107

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IS A DONKEY BOILER FITTED? *no.* If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— *Two each top & bottom end connecting rods, balls nuts, two main bearing balls nuts, one set of coupling balls nuts, one set each feed & bilge pump valves, iron of various sizes, a quantity of assorted balls nuts.*

The foregoing is a correct description,

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

Harold L. Shadron MOTOR

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1914: - Nov 25 Dec 30 1915: - Jan 7, 15, 20, 23. Mar 11, 17, 19, 24, 26, 31. Apr 9, 13, 19, 27 May 6, 21 }
{ During erection on board vessel - - - Jun 3, 8, 16, 19, 23, 25, 26, 28 Jul 1, 5, 6. }
Total No. of visits *29.* Is the approved plan of main boiler forwarded herewith *Rpl 277*

Dates of Examination of principal parts—Cylinders *6.5.15.* Slides *3.6.15.* Covers *27.5.15.* Pistons *3.6.15.* Rods *8.6.15.*
Connecting rods *8.6.15.* Crank shaft *3.6.15.* Thrust shaft *13.4.15.* Tunnel shafts Screw shaft *26.3.15.* Propeller *26.3.15.*

Stern tube *26.3.15.* Steam pipes tested *28.6.15.* Engine and boiler seatings *31.3.15.* Engines holding down bolts *19.6.13.*

Completion of pumping arrangements *1.7.15.* Boilers fixed *19.6.13.* Engines tried under steam *1.7.15.*

Main boiler safety valves adjusted *1.7.15.* Thickness of adjusting washers *SV 1/4 full. PV 1/4 full.*

Material of Crank shaft *S.* Identification Mark on Do. *1460.* Material of Thrust shaft *S.* Identification Mark on Do. *706.*
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts *S.* Identification Marks on Do. *144.*

Material of Steam Pipes *Copper Solid drawn.* Test pressure *400 lbs. hyd.*
Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150° F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case *yes.* If so, state name of vessel *"Sh Coy."*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines & boiler of this vessel have been constructed under special survey in accordance with the Rules. The materials and workmanship are sound and good. The Boiler tested by hydraulic pressure and with the engines secured on board & tested under steam they are now in good order and safe-working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of +LMC. 7.15. in the Register's books.*

It is submitted that this vessel is eligible for THE RECORD. + LMC 7.15

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

The amount of Entry Fee ... £ 1 : :
Special ... £ 12 : 12 } When applied for, 21-7-1915
Donkey Boiler Fee ... £ : : }
Travelling Expenses (if any) £ : 4 : 2 } When received, 31/7/1915

FRI. JUL. 30. 1915

Committee's Minute
Assigned *+ LMC 7.15*



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