

REPORT ON MACHINERY.

newcastle Report No 71957

No. 27588
WED. 4 JUN. 1919

of writing Report

19

When handed in at Local Office - 3 JUN 1919

Received at London Office

Port of Sunderland

in Survey held at

Sunderland

Date, First Survey

22 May 1918 Last Survey 24 May 1919

g. Book.

15 on the new steel S/S "AYMERIC" ~~"WAR NEMESIA"~~

(Number of Visits)

Master

Smith

Built at

Sunderland

By whom built

R. Thompson & Sons Ltd (No. 307)

Tons

Gross 5250 5196

Net

3200 3157

When built

1919

Engines made at

Sunderland

By whom made

North Eastern Marine Engineering Co. Ltd (No. 2343) when made

1919

ilers made at

Sunderland

By whom made

North Eastern Marine Engineering Co. Ltd (No. 2343) when made

1919

gistered Horse Power

Owners The Shipping Controller (Woods Taylor & Brown)

Port belonging to

London

m. Horse Power as per Section 28

517

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

GINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

a. of Cylinders

27" 44" 73"

Length of Stroke

48"

Revs. per minute

75

Dia. of Screw shaft

as per rule 15.39

Material of

9. Steel

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

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

yes

If two

ers are fitted, is the shaft lapped or protected between the liners

Length of stern bush

5-0 1/2"

a. of Tunnel shaft

as per rule 13.32

as fitted 1-13"

Dia. of Crank shaft journals

as per rule 14"

as fitted 1-2 1/2"

Dia. of Crank pin

1-2 1/2"

Size of Crank webs

110 1/2" x 9"

Dia. of thrust shaft under

bars

1-2 3/4"

Dia. of screw

17-6"

Pitch of Screw

16-6"

No. of Blades

4

State whether moveable

no

Total surface

98.2 sq ft

a. of Feed pumps

2

Diameter of ditto

4"

Stroke

2-0"

Can one be overhauled while the other is at work

yes

a. of Bilge pumps

2

Diameter of ditto

4"

Stroke

2-0"

Can one be overhauled while the other is at work

yes

a. of Donkey Engines

3

Sizes of Pumps

20 9 1/2" x 7 1/8" 10 10 1/2" x 14 1/2" x 2 1/4"

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

Engine Room

4 @ 3 1/2"

In Holds, &c. No. 1 hold - 2 @ 3 1/2". No. 2 hold - 2 @ 3 1/2"

a. of Bilge Injections

1

sizes

13"

Connected to condenser, or to circulating pump

6 P.

Is a separate Donkey Suction fitted in Engine room & size

yes, 3 1/2"

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

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

main below, all others above

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

at pipes are carried through the bunkers

forward hold suction

How are they protected

under limber boards

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

yes

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

yes

the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

no

worked from access by trunk from deck.

MLERS, &c.—(Letter for record (S))

(S)

Manufacturers of Steel

John Spencer & Sons Ltd.

al Heating Surface of Boilers

76680

Is Forced Draft fitted

yes

No. and Description of Boilers Three single ended marine

orking Pressure

180

Tested by hydraulic pressure to

360

Date of test 27-11-18, 30-11-18, 6-12-18

No. of Certificate 3512, 3514, 3518

each boiler be worked separately

yes

Area of fire grate in each boiler

63 sq ft

No. and Description of Safety Valves to

a boiler

two direct spring

Area of each valve

9.6 sq"

Pressure to which they are adjusted

185

Are they fitted with easing gear

yes

allest distance between boilers or uptakes and bunkers or woodwork

1-8"

Mean dia. of boilers

15-6"

Length

11-8 5/8"

Material of shell plates

steel

ickness

1 1/2"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR

a. seams

DBS. TR

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

9 1/8"

Lap of plates or width of butt straps

1-8 1/8"

centages of strength of longitudinal joint

85.5

Working pressure of shell by rules

182

Size of manhole in shell

16" x 12"

No. of strengthening rings

1

e of compensating ring

flanged

No. and Description of Furnaces in each boiler

3 Deighton

Material

steel

Outside diameter

4-2 3/16"

ngth of plain part

top

bottom

Thickness of plates

1 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

1

Working pressure of furnace by the rules

188

orking pressure of furnace by the rules

188

Combustion chamber plates: Material

steel

Thickness: Sides

3/32"

Back

3/32"

Top

3/32"

Bottom

3/32"

ch of stays to ditto: Sides

10 3/8" x 10 3/8"

Back

11 1/8" x 9 1/2"

Top

10 3/8" x 10 3/8"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

180

aterial of stays

steel

Area at smallest part

2.36 sq"

Area supported by each stay

112.6 sq"

Working pressure by rules

187

End plates in steam space:

aterial

steel

Thickness

1 1/2"

Pitch of stays

21" x 21 1/2"

How are stays secured

DN & W

Working pressure by rules

187

Material of stays

steel

ea at smallest part

7.98 sq"

Area supported by each stay

456 sq"

Working pressure by rules

182

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? *—*

SPARE GEAR. State the articles supplied:— *Two connecting rod top and bottom end bolts and nuts, two main bearing bolts, one set of coupling bolts, one set of feed and bilge pump valves, iron and bolts of various sizes, one propeller and one screw shaft.*

The foregoing is a correct description,

FOR THE NORTH EASTERN MARINE ENGINEERING CO. LTD.

Geo. D. New

Manufacturer.

Manager.

Dates of Survey while building { During progress of work in shops - - 1918 May 22, 27, 30. Jun 3, 4, 7, 11, 17, 19, 21. Jul 1, 2, 12, 14, 17. Aug 2, 7, 8, 12, 13, 14, 16, 20. Sep 2, 6, 11, 13, 14, 17, 18, 25, 30.
During erection on board vessel - - - Oct. 1, 10, 14, 15, 18, 21, 23, 25, 29, 31. Nov 14, 26, 27, 30. Dec 5, 6, 9, 10, 11, 13, 16, 17, 23. Jan 6, 7, 9, 13, 14, 16, 17, 18, 20, 27. Feb 1.
Total No. of visits Mar 2, 7, 11. Apr 2. Is the approved plan of main boiler forwarded herewith *yes*

" " " donkey " " " "

Dates of Examination of principal parts—Cylinders 9-8-18 Slides 28-8-18 Covers 13-8-18 Pistons 12-8-18 Rods 13-9-18
Connecting rods 16-7-18 Crank shaft 11-9-18 Thrust shaft 11-9-18 Tunnel shafts 14-9-18 Screw shaft 9-12-18 Propeller 1-10-18
Stern tube 30-9-18 Steam pipes tested 13-1-19 Engine and boiler seatings 29-10-18 Engines holding down bolts 14-1-19
Completion of pumping arrangements 1-2-19 Boilers fixed 14-1-19 Engines tried under steam 18-1-19
Completion of fitting sea connections 5-12-18 Stern tube 13-12-18 Screw shaft and propeller 24-12-18
Main boiler safety valves adjusted 18-1-19 Thickness of adjusting washers *Port boiler - P 3/8" 5/16" Centre boiler - P 3/8" 5/16" Starboard boiler - both 5/16"*

Material of Crank shaft *Steel* Identification Mark on Do. *3605N WC* Material of Thrust shaft *Steel* Identification Mark on Do. *3605N WC*
Material of Tunnel shafts *Steel* Identification Marks on Do. *3605N WC* Material of Screw shaft *Steel* Identification Marks on Do. *3605N WC*
Material of Steam Pipes *Lapwelded wrought iron* Test pressure *540 lbs per sq in*

Is an installation fitted for burning oil fuel *no yes* Is the flash point of the oil to be used over 150°F. *yes*

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

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Standard "A" type*

General Remarks (State quality of workmanship, opinions as to class, &c.)

*The material and workmanship are good.
The machinery has been constructed under special survey and is eligible in my opinion for classification and the record + LMC 5.19.*

Fitted for burning oil fuel above 150°F.

*The vessel has left for the Tyne where it is stated an installation is to be fitted for burning oil fuel. Newcastle Surveyors advised.
oil fuel. Installation, tested under working conditions & found satisfactory—*

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.19. F.D.

Fitted for oil fuel 5.19. F.P. above 150°F.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ *115: 9 4* 28 MAY 1919
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : *20/6* 19. 1919

Committee's Minute

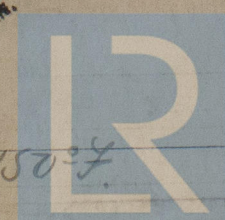
TUE 17 JUN 1919

+ LMC 5.19. F.D.

Fitted for oil fuel 5.19 F.P. above 150°F.

L. G. Skallerross
L. G. Davis
Engineer Surveyor to Lloyd's Register of Shipping.

MACHINERY CERTIFICATE
NOTED



© 2021

Lloyd's Register Foundation