

Rpt. 4.

REPORT ON MACHINERY.

No. 38173.

Received at London Office WED. 25 SEP. 1918

Date of writing Report

10

When handed in at Local Office

10

Port of Glasgow 22nd Nov. 1918.

No. in Survey held at
eg. Book.

Glasgow

Date, First Survey

27/6/17

Last Survey

12th Sept 1918

on the Standard Vessel "WAR ASPEN" now Sutherland

(Number of Visits

95-109

Gross 5277

Tons Net 3191

When built 1918

Master

Young

Built at

Sunderland

By whom built

W. D. Smith Sons (528)

Engines made at

Glasgow

By whom made

Harland & Wolff (No 530)

when made 1918

Boilers made at

Sunderland

By whom made

W. D. Smith Sons (528)

when made 1918

Registered Horse Power

Owners

Sutherland & Co

Port belonging to

Newcastle

nom. Horse Power as per Section 28

517

Is Refrigerating Machinery fitted for cargo purposes

Yes

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

27-44-73

Length of Stroke

48

Revs. per minute

Dia. of Screw shaft

as per rule 14.2

Material of screw shaft

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

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

Yes

If two

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

Yes

Length of stern bush

5-0 1/2

Dia. of Tunnel shaft

as per rule 13.33

as fitted 13 1/2

Dia. of Crank shaft journals

as per rule 14

as fitted 14 1/2

Dia. of Crank pin

14 1/2

Size of Crank webs

28x9

Dia. of thrust shaft under

rollers

14 3/4

Dia. of screw

17-6

Pitch of Screw

16-6

No. of Blades

4

State whether moveable

No

Total surface

102.5

No. of Feed pumps

2

Diameter of ditto

4

Stroke

24

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

4

Stroke

24

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

3

Sizes of Pumps

105-114-124

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

In Engine Room

Four @ 3 1/2

In Holds, &c.

No. 1. 2 @ 3 1/2 No. 2. 2 @ 3 1/2 No. 3. 2 @ 3 1/2

No. of Bilge Injections

1

sizes

13

Connected to condenser or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room of size

4 1/2 @ 3 1/2

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

No

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 + below

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

No

How are they protected

Yes

Are all Pipes, Cocks, Valves, and Pumps in 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

19. 9. 18

of Stern Tube

19. 9. 18

Screw shaft and Propeller

17. 10. 18

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

No

Worked from access by trunk

BOILERS, &c.—(Letter for record

5)

Manufacturers of Steel

James Smith

Total Heating Surface of Boilers

7668.4

Is Forced Draft fitted

Yes

No. and Description of Boilers

Three Single 9 and

Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

Date of test

23/9, 1/10, 3/10/18 No. of Certificate 3502, 3504, 3505

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63.9

No. and Description of Safety Valves to

each boiler

2 Spring valves

Area of each valve

9.64

Pressure to which they are adjusted

185 lb

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

Way bulks

Mean dia. of boilers

18-6

Length

11-6

Material of shell plates

S

Thickness

1 1/4

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap 2 1/2

Long. seams

2 1/2

Diameter of rivet holes in long. seams

1 1/8

Pitch of rivets

4 1/2

Lap of plates or width of butt straps

19 1/2

Percentages of strength of longitudinal joint

55-6

Working pressure of shell by rules

182

Size of manhole in shell

16 x 12

Size of compensating ring

None

No. and Description of Furnaces in each boiler

3 Diagonal

Material

S

Outside diameter

4-2 3/4

Length of plain part

top - bottom -

Thickness of plates

coron. 1 1/2 bottom 3/2

Description of longitudinal joint

Welded

No. of strengthening rings

-

Working pressure of furnace by the rules

187

Combustion chamber plates: Material

S

Thickness: Sides

2 3/4

Back

1 1/2

Top

2 3/4

Bottom

3 1/2

Pitch of stays to ditto: Sides

18 5/8 x 9 1/4

Back

8 3/4 x 10 1/4

Top

10 5/8 x 9 1/4

If stays are fitted with nuts or riveted heads

No

Working pressure by rules

180

Material of stays

S

Diameter at smallest part

2-36

Area supported by each stay

98.2

Working pressure by rules

216

End plates in steam space:

Material

S

Thickness

1 1/2

Pitch of stays

2 1/4 x 20 1/2

How are stays secured

At 4 x 1 1/2

Working pressure by rules

190

Material of stays

S

Diameter at smallest part

8-29

VERTICAL DONKEY BOILER—

Manufacturer *Wm. Doxford*

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 casing 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 _____

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 top end, two bottom end connecting rod bolts + nuts, two main bearing bolts, one at coupling bolts, one at foot + little pump valves, assorted bolts and nuts, 2000 of various sizes, one propeller.*

WILLIAM DOXFORD & SONS, Limited.

The foregoing is a correct description,

H. E. Rebbeck

Manufacturer.

A. R. Doxford

Director.

Dates of Survey while building

During progress of work in shops -- 1917 June 27, July 2, 7, 10, 12, 26, Aug. 1, 8, 9, 29, 30, 31, Sept. 8, 12, 18, 21, 27, Oct. 1, 11, 17, 26, 31, Nov. 3, 12, 13, 14, 20, 23, 27, Dec. 4

During erection on board vessel -- 5, 8, 11, 13, 17, 18, 21, 24, 26, 29, 1918 Jan. 8, 10, 16, 17, 22, 29, Feb. 5, 8, 13, 20, 25, 26, Mar. 7, 11, 13, 18, 19, 21, 22, 26, 28, Apr. 5, 6, 11, 15, 17, 23, 30, May 8, 16

Total No. of visits 21-22-24-25-30 June 3-5-12-19-24-27-28 July 1-3-5-8-10-11-24-29-31

1917 = 95. 1918 = 95. 1919 = 95. 1920 = 95. 1921 = 95. 1922 = 95. 1923 = 95. 1924 = 95. 1925 = 95. 1926 = 95. 1927 = 95. 1928 = 95. 1929 = 95. 1930 = 95. 1931 = 95. 1932 = 95. 1933 = 95. 1934 = 95. 1935 = 95. 1936 = 95. 1937 = 95. 1938 = 95. 1939 = 95. 1940 = 95. 1941 = 95. 1942 = 95. 1943 = 95. 1944 = 95. 1945 = 95. 1946 = 95. 1947 = 95. 1948 = 95. 1949 = 95. 1950 = 95. 1951 = 95. 1952 = 95. 1953 = 95. 1954 = 95. 1955 = 95. 1956 = 95. 1957 = 95. 1958 = 95. 1959 = 95. 1960 = 95. 1961 = 95. 1962 = 95. 1963 = 95. 1964 = 95. 1965 = 95. 1966 = 95. 1967 = 95. 1968 = 95. 1969 = 95. 1970 = 95. 1971 = 95. 1972 = 95. 1973 = 95. 1974 = 95. 1975 = 95. 1976 = 95. 1977 = 95. 1978 = 95. 1979 = 95. 1980 = 95. 1981 = 95. 1982 = 95. 1983 = 95. 1984 = 95. 1985 = 95. 1986 = 95. 1987 = 95. 1988 = 95. 1989 = 95. 1990 = 95. 1991 = 95. 1992 = 95. 1993 = 95. 1994 = 95. 1995 = 95. 1996 = 95. 1997 = 95. 1998 = 95. 1999 = 95. 2000 = 95. 2001 = 95. 2002 = 95. 2003 = 95. 2004 = 95. 2005 = 95. 2006 = 95. 2007 = 95. 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