

Rpt. 4.

## REPORT ON MACHINERY.

No. 15348  
34/556

Received at London Office WED. MAR. 13 1918.

Date of writing Report 9/5/18 When handed in at Local Office 18

Port of

No. in Survey held at Glasgow  
Reg. Book.

Date, First Survey 16/2/15

Last Survey 7/3/1918

on the

S/S "Wellmark"

(Number of Vents)

Tons

Gross

Net

Master

Built at Glasgow

By whom built

Greenock Glasgow 8310

When built

Engines made at

Glasgow

By whom made

Cunliffe &amp; Jackson Ltd (H65)

when made

1918

Boilers made at

ditto

By whom made

ditto

(H62)

when made

1918

Registered Horse Power

Owners The Bertholm Line Steamers Ltd

Port belonging to

Greenock

Nom. Horse Power as per Section 28

228

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

No. of Cylinders

21-35-57

Length of Stroke

36"

Revs. per minute

Dia. of Screw shaft

as per rule 11-7  
as fitted 12-38

Material of

screw shaft

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

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

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

Length of stern bush

49 1/2"

Dia. of Tunnel shaft

as per rule 10-26  
as fitted 10-58

Dia. of Crank shaft journals

as per rule 10-27  
as fitted 11-7

Dia. of Crank pin

11-8"

Size of Crank webs

7-8-22

Dia. of thrust shaft under

collars

11"

Dia. of screw

14-9"

Pitch of Screw

11-6"

No. of Blades

4

State whether moveable

no

Total surface

75-24"

No. of Feed pumps

2

Diameter of ditto

3 1/4"

Stroke

18"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

18"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

3

Sizes of Pumps

4-11-10 4-12-10 4-15-10

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

In Engine Room

2-2 3/4 1-3"

In Holds, &amp;c.

Forehold 2-2 3/4 after hold 2-2 3/4 and

1-2 1/2 Tunnel well hold.

No. of Bilge Injections

1

size

4"

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room &amp; size

4-3"

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

none

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

29/10/17

of Stern Tube

15/3/18

Screw shaft and Propeller

15/3/18

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

upper deck

BOILERS, &amp;c.—(Letter for record R)

Manufacturers of Steel

Glasgow

Iron

Steel

Cottrell

Total Heating Surface of Boilers

3434

Is Forced Draft fitted

no

No. and Description of Boilers

2 Single Ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

7.9.15

No. of Certificate

13236

Can each boiler be worked separately

yes

Area of fire grate in each boiler

56 3/8

No. and Description of Safety Valves to

each boiler

2 Double Spring

Area of each valve

104

Pressure to which they are adjusted

185 lb.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers on woodwork

7"

Mean dia. of boilers

14.7 1/4"

Length

10-6"

Material of shell plates

S

Thickness

1 1/4"

Range of tensile strength

28-32

Are the shell plates welded or flanged

yes

Descrip. of riveting: cir. seams

DR

long. seams

TR. D.B.S.

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 1/2"

Lap of plates or width of butt straps

1-6 3/4"

Per centages of strength of longitudinal joint

rivets 91-4  
plate 85-29

Working pressure of shell by rules

181

Size of manhole in shell

16 x 12"

Size of compensating ring

63 1/4 x 13 1/16"

No. and Description of Furnaces in each boiler

3 Corrugated

Material

S

Outside diameter

3-9"

Length of plain part

top  
bottom

Thickness of plates

crown 1 1/4"  
bottom 1 1/8"

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

182

Combustion chamber plates: Material

S

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

13/16"

Pitch of stays to ditto: Sides

7 1/8 x 8 1/2"

Back

8 3/4 x 8"

Top

7 1/8 x 8 3/4"

If stays are fitted with nuts or riveted heads

DN

Material of stays

Iron

Diameter at smallest part

1-99

Area supported by each stay

70"

Working pressure by rules

210

End plates in steam space:

Material

Material

S

Thickness

1 1/32"

Pitch of stays

19 3/8 x 18"

How are stays secured

DN

Working pressure by rules

186

Diameter at smallest part

5-78"

Area supported by each stay

335"

Working pressure by rules

181

Material of Front plates at bottom

S

Thickness

1 1/32"

Material of Lower back plate

S

Thickness

29/32"

Greatest pitch of stays

15 x 8 3/4"

Diameter of tubes

3 1/2"

Pitch of tubes

4 7/8 x 5"

Material of tube plates

S

Thickness: Front

1 1/32"

Back

29/32"

Mean pitch of stays

9 7/8"

Pitch across wide water spaces

14 1/2"

Working pressures by rules

181

Girders to Chamber tops: Material

Iron

Depth and

thickness of girder at centre

Working pressure by rules

189

Superheater or Steam chest; how connected to boiler

yes

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

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

yes

Lloyd's Register

Foundation

W263-0102



IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes See follow  
SPARE GEAR. State the articles supplied:— yes. 15/5/18.

Two top and bottom end connecting rod bolts and nuts, two main bearing bolts, a set of coupling bolts nuts, a set of feed, fulcrum, air circulating pump valves, complete set of piston rings, propeller, and assorted nuts & bolts and iron of various sizes

The foregoing is a correct description,  
DUNSMUIR & JACKSON, Limited.

James Fletcher Director. Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1915 Feb 4, 1916 Mar 8, 1917 Apr 12, 1918 May 1, 1919 Jun 1, 1920 Jul 1, 1921 Aug 1, 1922 Sep 1, 1923 Oct 1, 1924 Nov 1, 1925 Dec 1, 1926 Jan 1, 1927 Feb 1, 1928 Mar 1, 1929 Apr 1, 1930 May 1, 1931 Jun 1, 1932 Jul 1, 1933 Aug 1, 1934 Sep 1, 1935 Oct 1, 1936 Nov 1, 1937 Dec 1, 1938 Jan 1, 1939 Feb 1, 1940 Mar 1, 1941 Apr 1, 1942 May 1, 1943 Jun 1, 1944 Jul 1, 1945 Aug 1, 1946 Sep 1, 1947 Oct 1, 1948 Nov 1, 1949 Dec 1, 1950 Jan 1, 1951 Feb 1, 1952 Mar 1, 1953 Apr 1, 1954 May 1, 1955 Jun 1, 1956 Jul 1, 1957 Aug 1, 1958 Sep 1, 1959 Oct 1, 1960 Nov 1, 1961 Dec 1, 1962 Jan 1, 1963 Feb 1, 1964 Mar 1, 1965 Apr 1, 1966 May 1, 1967 Jun 1, 1968 Jul 1, 1969 Aug 1, 1970 Sep 1, 1971 Oct 1, 1972 Nov 1, 1973 Dec 1, 1974 Jan 1, 1975 Feb 1, 1976 Mar 1, 1977 Apr 1, 1978 May 1, 1979 Jun 1, 1980 Jul 1, 1981 Aug 1, 1982 Sep 1, 1983 Oct 1, 1984 Nov 1, 1985 Dec 1, 1986 Jan 1, 1987 Feb 1, 1988 Mar 1, 1989 Apr 1, 1990 May 1, 1991 Jun 1, 1992 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