

REPORT ON BOILERS.

No. 22028.

Received at London Office

114 OCT 1942

Writing Report 9th OCTOBER 1942. When handed in at Local Office 12th OCTOBER 1942. Port of GREENOCK

Survey held at

GREENOCK

Date, First Survey 5th SEPTEMBER 1941 Last Survey 1st OCTOBER 1942

on the

SINGLE SC. "NASSA" Oil Engine

(Number of Visits ✓)

Gross 8100
Tons Net 4750

at GLASGOW

By whom built BLYTHSWOOD SHIPRD CO LTD

Yard No. 68 When built 1942

as made at GREENOCK

By whom made JOHN G. KINCAID & CO LTD

Engine No. 1137 When made 1942

as made at GREENOCK

By whom made JOHN G. KINCAID & CO LTD

Boiler No. 137 When made 1942

al Horse Power 502

Owners ANGLO SAXON PETROLEUM CO LTD

Port belonging to LONDON

TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

COLVILLE L^{TD}

(Letter for Record S)

Heating Surface of Boilers

3502 ✓

Is forced draught fitted

yes ✓

Coal or Oil fired Oil and Ex. Gas

and Description of Boilers

One SE. Cylindrical ✓

Working Pressure 180 lbs/sq. in.

by hydraulic pressure to

320 lb.

Date of test 3-12-41

No. of Certificate 2260

Can each boiler be worked separately ✓

of Firegrate in each Boiler ✓

No. and Description of safety valves to each boiler

One 3" double opening I.H.L. ✓

of each set of valves per boiler

per Rule 11.22 ✓

as fitted 14.14

Pressure to which they are adjusted

180

Are they fitted with easing gear ✓

e of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

est distance between boilers or uptakes and bunkers or woodwork

4'4" ✓

Is oil fuel carried in the double bottom under boilers ✓

est distance between shell of boiler and tank top plating ✓

Is the bottom of the boiler insulated

yes

st internal dia. of boilers

16'-3" ✓

Length 12'-6" ✓

Shell plates: Material S

Tensile strength 29/33 tons

ness 1 5/16" ✓

Are the shell plates welded or flanged

No ✓

Description of riveting: circ. seams

end D.R.

seams TR DBS.

Diameter of rivet holes in

circ. seams 1 3/8" ✓

long. seams 1 5/16" ✓

Pitch of rivets

3.953" ✓

age of strength of circ. end seams

plate 65.2 %

rivets 45.3

Percentage of strength of circ. intermediate seam

plate ✓

age of strength of longitudinal joint

plate 85.3

rivets 85.7

combined 87.6

ness of butt straps

outer 1" ✓

inner 1 1/8" ✓

No. and Description of Furnaces in each Boiler

Three Dighton ✓

ial S ✓

Tensile strength 26/30 tons ✓

Smallest outside diameter 3'-11 3/16" ✓

h of plain part

top ✓

bottom ✓

Thickness of plates

crown 19" ✓

bottom 32" ✓

Description of longitudinal joint

Weld ✓

isions of stiffening rings on furnace or c.c. bottom

plates in steam space: Material S

Tensile strength 26/30 tons

Thickness 1 1/4" ✓

Pitch of stays 17 1/2" x 19 1/2" ✓

are stays secured

D.N. and loose washers

plates: Material

front S ✓

back S ✓

Tensile strength 26/30 tons

Thickness 15/16" ✓

23/32" ✓

pitch of stay tubes in nests 9.375" ✓

Pitch across wide water spaces 1'-1 1/2" ✓

rs to combustion chamber tops: Material S

Tensile strength 29/33 tons ✓

Depth and thickness of girder

tre 9 3/4" x 1 1/2" ✓

Length as per Rule 3'-2 9/32" ✓

Distance apart 9" ✓

No. and pitch of stays

ch Lower 7 1/4" ✓

Combustion chamber plates: Material S

le strength 26/30 tons

Thickness: Sides 1 1/16" ✓

Back 1 1/16" ✓

Top 1 1/16" ✓

Bottom 7/8" ✓

of stays to ditto: Sides 7 1/4" x 7 3/4" ✓

Back 6 3/4" x 8 1/16" ✓

Top 9 x 7 3/4" ✓

Are stays fitted with nuts or riveted over except top margin

plate at bottom: Material S

Tensile strength 26/30 tons

ness 1 5/16" ✓

Lower back plate: Material S

Tensile strength 26/30 tons

Thickness 13/16" ✓

of stays at wide water space 14" x 8 1/16" ✓

Are stays fitted with nuts or riveted over

Nuts

stays: Material S

Tensile strength 28/32 tons

At body of stay, or

3" ✓

No. of threads per inch 6 ✓

stays: Material S

Tensile strength 26/30 tons

At turned off part, or

1 3/8" ✓

No. of threads per inch 9 ✓

Over threads

005082-005088-0163

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Foundation

Are the stays drilled at the outer ends No

Margin stays: Diameter { At turned off part, 1 5/8"
or
Over threads

No. of threads per inch 9

Tubes: Material Woot iron External diameter { Plain 2 1/2"
Stay 2 1/2"

Thickness { 9/32" 1 1/32" No. of threads per inch 9

Pitch of tubes 3 3/4" x 3 3/4"

Manhole compensation: Size of open

shell plate 16 1/2" x 20 1/2" Section of compensating ring 2'-10 1/2" x 3'-1 1/2" x 1 1/32" No. of rivets and diameter of rivet holes 38 - 1 1/2"

Outer row rivet pitch at ends 10 1/4"

Depth of flange if manhole flanged McNeil type door

Steam Dome: Material

Tensile strength

Thickness of shell

Description of longitudinal joint

Diameter of rivet holes

Pitch of rivets

Percentage of strength of joint { Plate
Rivets

Internal diameter

Thickness of crown

No. and diam

stays

Inner radius of crown

How connected to shell

Size of doubling plate under dome

Diameter of rivet holes and

of rivets in outer row in dome connection to shell

Type of Superheater

Manufacturers of { Tubes
Steel forgings
Steel castings

Number of elements

Material of tubes

Internal diameter and thickness of tubes

Material of headers

Tensile strength

Thickness

Can the superheater be shut o

the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve

Are the safety valves fitted with easing gear

Pressure to which the safety valves are adjusted

Hydraulic test pres

tubes

forgings and castings

and after assembly in place

Are drain co

valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,
For JOHN G. KINCAID & CO. LIMITED.
W. E. Cairns Director. Manufact

Dates of Survey { During progress of
work in shops - - -
while { During erection on
building { board vessel - - -

SEE MACHINERY REPORT

Are the approved plans of boiler and superheater forwarded herewith 27-1-
(If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case Yes

If so, state Vessel's name and Report No. MU. DESMOULEA GRK 211N2

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under Special Survey in accordance with the Rules
& approved plans. The materials & workmanship are good. The safety valves
have been adjusted under steam accumulation oil.

For recommendations please see engine report

Survey Fee £

Travelling Expenses (if any) £

When applied for, 19

When received, 19

Charles H. Hunter

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 13 OCT 1942

Assigned SEE ACCOMPANYING MACHINERY REPORT



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