

Date of writing Report 13-10-1926 When handed in at Local Office 13-10-1926

Received at London Office

No. in Survey held at Aberdeen.

Port of Aberdeen.

Date, First Survey 9-2-26

Last Survey 7-10-1926

Reg. Book. 79657 on the S. S. "OUTWOOD".

(Number of Visits 30)

Master Built at Aberdeen.

By whom built J. Lewis & Sons Ltd (No 99) When built 1926.

Engines made at Aberdeen.

By whom made J. Lewis & Sons Ltd. (No 182)

when made 1926.

Boilers made at Aberdeen.

By whom made J. Lewis & Sons Ltd. (No 98)

when made 1926.

Registered Horse Power

Owners E. J. Lindley.

Port belonging to London.

Nom. Horse Power as per Section 28 87

Is Refrigerating Machinery fitted for cargo purposes no.

Is Electric Light fitted no.

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 97

Dia. of Screw shaft as per rule 7.71 Material of screw shaft Iron

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

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 2-10

Dia. of Tunnel shaft as per rule 6.88

Dia. of Crank shaft journals as per rule 7.22

as fitted 7.22

Dia. of Crank pin 7.2

Size of Crank webs 11x4.8

Dia. of thrust shaft under

Ullars 7.2 Dia. of screw 10-0 Pitch of Screw 12-6

No. of Blades 4

State whether maceable no

Total surface 37 sq ft

No. of Feed pumps 2 Diameter of ditto 2.3/4 Stroke 13.2

Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 2.3/4 Stroke 13.2

Can one be overhauled while the other is at work yes

No. of Donkey Engines 2

Sizes of Pumps 5x3.2x6, 7x7x8

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

Engine Room Two 2.4, one fwd. & one aft.

In Holds, &c. Two 2.3/4, one port & one starboard

No. of Bilge Injections 1 sizes 3.2

Connected to condenser, or to circulating pump

Straight tail pipes not practicable

Is a separate Donkey Suction fitted in Engine room & size yes 2.3/4

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

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

Are the pipes carried through the bunkers Suction pipes to hold.

How are they protected below ceiling

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

Is the Screw Shaft Tunnel watertight no

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record S.)

Manufacturers of Steel David Colville & Sons Ltd. Motherwell.

Heating Surface of Boilers 1440 sq ft

Is Forced Draft fitted no

No. and Description of Boilers One single ended

Working Pressure 200 lb

Tested by hydraulic pressure to 350 lb.

Date of test 17-9-26

No. of Certificate 1051

Can each boiler be worked separately

Area of fire grate in each boiler 48 sq ft

No. and Description of Safety Valves to 1 SB

Number of boilers 2 spring loaded.

Area of each valve 4.91

Pressure to which they are adjusted 200 lb.

Are they fitted with easing gear yes

Is the distance between boilers or uptakes and bunkers or woodwork alt. 24"

Mean dia. of boilers 13-9

Length 10-8

Material of shell plates Steel

Range of tensile strength 28/32

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams D.R.

Diameter of rivet holes in long. seams 1.4

Pitch of rivets 8.5/8

Lap of plates or width of butt straps 18.5/16

Working pressure of shell by rules 200 lb.

Size of manhole in shell 19x15

No. and Description of Furnaces in each boiler 3 plain.

Material S

Outside diameter 40"

Thickness of plates crown 13

bottom 16

Description of longitudinal joint welded

No. of strengthening rings

Pressure of furnace by the rules 214

Combustion chamber plates: Material S

Thickness: Sides 3/4

Back 23/32

Top 3/4

Bottom 3/4

Stays to ditto: Sides 8x10

Back 9.3/8x8.3/4

Top 8x11

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 214

Area supported by each stay 880

Working pressure by rules 206. End plates in steam space:

Thickness 1.7/32

Pitch of stays 19x18

How are stays secured D.N. & W.

Working pressure by rules 202.

Material of stays S

Area supported by each stay 3420

Working pressure by rules 236.

Material of Front plates at bottom S

Material of Lower back plate S

Thickness 15/16

Greatest pitch of stays 13.3/4x9.3/4

Working pressure of plate by rules 254.

Pitch of tubes 4.2x4.2

Material of tube plates S

Thickness: Front 15/16

Back 7/8

Mean pitch of stays 10.3

Working pressures by rules F. 206, 8.26 lb

Girders to Chamber tops: Material S

Depth and

girder at centre 11x13/4

Length as per rule 36.2/32

Distance apart 11

Number and pitch of stays in each 3@ 8"

Pressure by rules 223 lb

Steam dome: description of joint to shell

% of strength of joint

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Working pressure of shell by rules

Crown plates

Thickness

How stayed

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Tested by Hydraulic Pressure to

Pressure to which each is adjusted

Is Easing Gear fitted

Type

Date of Approval of Plan

Treated by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Tested by Hydraulic Pressure to

Pressure to which each is adjusted

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts, 1 set coupling bolts, 1 set feed, tilge, air & circulating pump valves, spare safety valve & relief valve springs. Main & donkey check valves, quantity of bolts & nuts & iron of various sizes, 1/2 set fire bars, 6 cylinder cover studs & nuts, 6 junk ring studs & nuts, 3 boiler tubes, 3 condenser tubes, propeller.

The foregoing is a correct description,
FOR JOHN LEWIS & SONS, LTD.,

John J. Donald

Manufacturer.

1926.
Dates of Survey while building { During progress of work in shops -- Feb. 9-17-24. March. 2-16. April. 5-12-24. May. 6-24-31. June. 11-18-29. July. 9-15-23-29.
During erection on board vessel --- Sept. 16-22-28-29. Oct. 5-7.
Total No. of visits 30.

Is the approved plan of main boiler forwarded herewith yes
" " " donkey " " "

Dates of Examination of principal parts—Cylinders 11-6-26 Slides 9-7-26 Covers 11-6-26 Pistons 9-7-26 Rods 9-7-26
Connecting rods 9-7-26 Crank shaft 15-7-26 Thrust shaft 29-7-26 Tunnel shafts ✓ Screw shaft 23-7-26 Propeller 23-7-26
Stern tube 23-7-26 Steam pipes tested 29-9-26 Engine and boiler seatings 22-9-26 Engines holding down bolts 28-9-26
Completion of pumping arrangements 7-10-26. Boilers fixed 28-9-26. Engines tried under steam 7-10-26
Completion of fitting sea connections 22-9-26 Stern tube 16-9-26 Screw shaft and propeller 16-9-26.
Main boiler safety valves adjusted 5-10-26 Thickness of adjusting washers P. 10 3/32 S. 13 3/32
Material of Crank shaft Steel Identification Mark on Do. 187-253 Material of Thrust shaft Steel Identification Mark on Do. 1074-253
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 1062-253
Material of Steam Pipes S. D. Copper. 3 3/4 dia. 6 SW.G. ✓ Test pressure 600 lbs per sq. in. ✓
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 "SURBITON" (Abn Rpt No. 14490)

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

The engines & boiler of this vessel have been built under special survey, & in accordance with the approved plans & the Rules of this Society. The materials & workmanship are good. The machinery has been properly fitted & secured on board, tried under working conditions, & found good.

The steam & feed pipes have been tested by hydraulic pressure as required by the Rules. The safety valves have been adjusted under steam & tried for accumulation.

The machinery is eligible in my opinion to have the record + LMC 10.26. CL. in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD + LMC 10.26. CL.

The plates for this boiler were made under British Corporation survey & approved by the Committee 25-3-23.
Please return approved plan for use in dealing with duplicate boiler No 99.

The amount of Entry Fee ... £ 2 : - :
Special ... £ 21 : 15 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 19
When received, 7.12.26

For H.C. Foster & Self.

P. Fitzgerald.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 15 OCT 1926

Assigned

+ have 10, 26

TUES. 23 NOV 1926



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Foundation