

TUE. OCT. 17 1922

Date of writing Report 30. 9 1922 When handed in at Local Office 16.10. 1922 Port of

No. in Survey held at WALKER. ON TYNE
Reg. Book.

Date, First Survey 22. March

Last Survey 13 October 1922

on the STEEL SCREW STEAMER. BRITISH SCOUT. S/S. 1136

(Number of Visits)

Gross
Net

When built 1922

Master 837 Built at WALKER

By whom built SWAN HUNTER. WIGHAM RICHARDSON. LD

1136 1136

Engines made at WALKER

By whom made SWAN HUNTER. WIGHAM RICHARDSON. LD

when made 1922

Boilers made at WALKER

By whom made SWAN HUNTER. WIGHAM RICHARDSON. LD

when made 1922

Registered Horse Power

Owners BRITISH. TANKER CO. LD 1136

Port belonging to SWANSEA.

Nom. Horse Power as per Section 28 182

Is Refrigerating Machinery fitted for cargo purposes NO

Is Electric Light fitted YES

ENGINES, &c.—Description of Engines VERTICAL. TRIPLE EXPANSION

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 17½-29-48

Length of Stroke 33

Revs. per minute

Dia. of Screw shaft

as per rule 10.16

Material of STEEL

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

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

Length of stern bush 3-5½

Dia. of Tunnel shaft

Dia. of Crank shaft journals

as per rule 9.28

Dia. of Crank pin 9½

Size of Crank webs BUILT

Dia. of thrust shaft under

collars 9¾

Dia. of screw 12-9

Pitch of Screw 13-3

No. of Blades 4

State whether moveable NO

Total surface 53 9

No. of Feed pumps 2

Diameter of ditto 3

Stroke 18

Can one be overhauled while the other is at work YES

No. of Bilge pumps 2

Diameter of ditto 3

Stroke 18

Can one be overhauled while the other is at work YES

No. of Donkey Engines 2

SIZES OF PUMPS

FEED 8½x6x13

CARGO. OIL PUMP 14x12x18

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

In Engine Room MICHY SPACE

202½

202½ OIL WELL

In Holds, &c. 207 4" PUMP ROOM - 107 2½ FORHOLD - 107 2" BALLAST

No. of Bilge Injections 1

SIZES

Connected to condenser, to circulating pump YES

Is a separate Donkey Suction fitted in Engine room & size YES. 2½

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 BOTH

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel YES

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 BOTH

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

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 NONE

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record 2 (7))

Manufacturers of Steel J. Spence & Co. Ltd of Newburn N. Tyne

Total Heating Surface of Boilers 2664

Is Forced Draft fitted YES

No. and Description of Boilers 2. S. E. CYL. MULTI

Working Pressure 180 lb

Tested by hydraulic pressure to 320 lb

Date of test 18.8.22

No. of Certificate 9683

Can each boiler be worked, separately YES

Area of fire grate in each boiler OIL FUEL

No. and Description of Safety Valves to each boiler TWO. DIRECT SPRING

Area of each valve 5.93

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 6-0

Mean dia. of boilers 11-6

Length 11-3

Material of shell plates STEEL

Thickness 29

Range of tensile strength 30/34 TONS

Are the shell plates welded or flanged NO

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

long. seams D.B.S. TR

Diameter of rivet holes in long. seams 15

Pitch of rivets 67/16

Lap of plates or width of butt straps 13-13

Per centages of strength of longitudinal joint

rivets 85.04%

Working pressure of shell by rules 183 lb

Size of manhole in shell 16x12

Size of compensating ring 3-0x2-8

No. and Description of Furnaces in each boiler 2 DEIGHTON

Material STEEL

Outside diameter 3-6½

Length of plain part top 7-6¼

Thickness of plates crown 1

Description of longitudinal joint WELD

No. of strengthening rings NONE

Working pressure of furnace by the rules 185 lb

Combustion chamber plates: Material STEEL

Thickness: Sides 11

Back 23

Top 16

Bottom 16

Pitch of stays to ditto: Sides 8x8¾

Back 8x8

Top 8x8

If stays are fitted with nuts or riveted heads SEE PLAN

Working pressure by rules 186 lb

Material of stays 20W

Area at smallest part 1½

Area supported by each stay 67

Working pressure by rules 187 lb

End plates in steam space

Material STEEL

Thickness 1½

Pitch of stays 14x18½

How are stays secured D-N

Working pressure by rules 182 lb

Material of stays STEEL

Area at smallest part 298

Area supported by each stay 270

Working pressure by rules 184 lb

Material of Front plates at bottom STEEL

Thickness 1½

Material of Lower back plate STEEL

Thickness 1½

Greatest pitch of stays 13½x8

Working pressure of plate by rules 190 lb

Diameter of tubes 2½

Pitch of tubes 3¾x3¾

Material of tube plates STEEL

Thickness: Front 1½

Back ¾

Mean pitch of stays 9¾

Pitch across wide water spaces 13½

Working pressures by rules 183 lb

Girders to Chamber tops: Material STEEL

Depth and thickness of girder at centre 8½x1½

Length as per rule 30.53

Distance apart 8

Working pressure by rules 183 lb

Steam dome: description of joint to shell NONE

% of strength of joint

Diameter 2

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type NONE

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

002174-002183-0094

IS A DONKEY BOILER FITTED? *NO*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied *four do; end bolt & nuts, two bottom end bolt & nuts four bedplate bearing bolt & nuts. 1 set bottom end bearings - spare coupling bolt & nuts, two eccentric shafts - one valve spindle, 24 junk ring bolts - one air pump rod one set air pump valves two feed pump valves. 1 set Bilge pump valves & seats. 1 propeller shaft (C.L.) one spare propeller one relief valve spring for each side fitted - one main feed check valve one auxiliary feed check valve 2 manhole door dog & nuts 12 stay nuts - 6 plain boiler tubes - one set of valves for wear pumps spare tubes & flanges for Condenser. (24) - mounted iron bolt & nuts & general engine room stores & tools*

The foregoing is a correct description,

FOR
EWAN, HUNTER & WIGHAM RICHARDSON, LTD.

L. J. Tweedy

Manufacturer.

Dates of Survey while building { During progress of work in shops - *1922 Mar. 22, Apr. 6, 25, May 2, 11, 16, June 1, 2, 7, 29, July 4, 12, 13, 24, 27, 28, Aug. 24, 25, 10, 17, 18, 21, 22, 24, 25, 28, 29, 30, Sep. 1, 7, 13, 15, 20, 23, 25, 27.*
During erection on board vessel - *Oct. 4, 6, 13.*
Total No. of visits *41.*

Is the approved plan of main boiler forwarded herewith *YES*

Glinders tested. W.P. 225 lb. M.P. 100 lb. L.P. 25 lb. 27.7.22 7.9.22 " " donkey " " 10.5.22 6.4.22
HP. 225 lb. M.P. 100 lb. L.P. 25 lb. 29.6.22 1.6.22 17.7.22 1.5.22 2.8.22 4.8.22
Dates of Examination of principal parts - Cylinders *25.4.22* Slides *1.5.22* Covers *1.5.22* Pistons *2.8.22* Rods *1.4.22*
4.8.22 4.8.22 10.3.22 4.8.22
Connecting rods *1.4.22* Crank shaft *29.6.22* Thrust shaft *25.4.22* Tunnel shafts *27.7.22* Propeller *27.7.22*
4.8.22 27.9.22 Engines holding down bolts *25.9.22*
Stern tube *27.7.22* Steam pipes tested *23.9.22* Engine and boiler seatings *29.8.22* Engines tried under steam *4.10.22/3.10.22*
Completion of pumping arrangements *13.10.22* Boilers fixed *4.10.22* Engines tried under steam *4.10.22/3.10.22*
Completion of fitting sea connections *22.8.22* Stern tube *4.8.22* Screw shaft and propeller *25.9.22 - 25.9.22*
Main boiler safety valves adjusted *4.10.22* Thickness of adjusting washers *PT.B. P 3/2. S 3/2. ST.B. P 3/8. S 3/8*
Material of Crank shaft *steel* Identification Mark on Do. *LCS 4/8/22* Material of Thrust shaft *steel* Identification Mark on Do. *4/8/22*
Material of Tunnel shafts *steel* Identification Marks on Do. *SP. S. ATT. 434* Material of Screw shafts *steel* Identification Marks on Do. *ATT. 432 LLOYDS 16.3.22*
Material of Steam Pipes *SD. Copper* Test pressure *400 lb*

Is an installation fitted for burning oil fuel *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 *NO* If so, state name of vessel

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

The machinery built under Special Survey the material and workmanship found good and efficient.

The Engines, and Boilers, with the auxiliary machinery satisfactorily fitted up on board the Vessel (AFT).

The main cylinders, Condensers, feed Heaters, and various Stop Valves and pipes were tested under hydraulic pressure tests, with satisfactory results.

The Engines and Boilers were tested under steam under working conditions (Vessel at moorings) and found satisfactory - 4.10.22

The Vessel subsequently proceeded to sea for sea trials. The machinery working satisfactorily. The Vessel then proceeded on a voyage to London - 13.10.22.

In our opinion the Vessel is now eligible for the notification of + L M C. 10.22 fitted up for burning oil fuel. 10.22 Flash point above 150°F. Boilers fitted with forced draught. Tail shaft (C.L.) to be recorded in the Register Book

The amount of Entry Fee ... £ *3* : :
Special ... £ *45 10* : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, *14/10/22*
When received, *17/10/22*

L. G. Shallcross &

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 20 OCT. 1922

+ Ldn. 10.22

Listed for oil fuel 10.22
Flash point above 150°F.



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