

REPORT ON MACHINERY.

No. 63439

Received at London Office

24 AUG 1920

Survey Report 24 AUG 1920 When handed in at Local Office 24 AUG 1920 Port of Ipswich
Survey held at Date, First Survey July 23rd 1918 Last Survey 4th August 1920
on the Engine No 55. S. Hancock
Built at Great Yarmouth By whom built Mr Burrell when made 1920
Horse Power Owners Admiralty (Hucknaby) Port belonging to
Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
Cylinders 10"-16 1/2"-26 1/2" Length of Stroke 18" Revs. per minute 140 Dia. of Screw shaft as per rule Material of screw shaft Steel
Screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
Propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part
The bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
are fitted, is the shaft lapped or protected between the liners Length of stern bush
Screw shaft as per rule Dia. of Crank shaft journals as app. 5 1/2" Dia. of Crank pin 5 3/8" Size of Crank webs 6 3/4" x 4" Dia. of thrust shaft under
as fitted 5 3/8" Dia. of screw 6-9" Pitch of Screw 8-9" No. of Blades 4 State whether moveable 70 Total surface
Feed pumps 1 Diameter of ditto 2 1/2" Stroke 9" Can one be overhauled while the other is at work
Bilge pumps 1 Diameter of ditto 2 1/2" Stroke 9" Can one be overhauled while the other is at work
Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
In Holds, &c.

3. Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
2. Bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
1. Connections with the sea direct on the skin of the ship Are they Valves or Cocks
fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
Pipes are carried through the bunkers How are they protected
Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

ES, &c.—(Letter for record) Manufacturers of Steel
Boilers
Boiling Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Pressure Tested by hydraulic pressure to Date of test No. of Certificate
boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
Compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
Plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Thickness of plates bottom
Pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Stays Pitch of stays Material of tube plates Thickness: Front Back Mean pitch of stays
Cross wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
of girder at centre Length as per rule Distance apart Number and pitch of stays in each
Working pressure by rules Steam dome: description of joint to shell % of strength of joint
Shipp Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
rivets Working pressure of shell by rules Crown plates Thickness How stayed
HEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

FOR WILLIAM BURRELL

*Edna Burrell*

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } 1918: July 23. Sep. 14. 1919: Jan. 2, 14. May 23. 1920 July 28 Aug 4  
 { During erection on board vessel --- }  
 Total No. of visits

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 19.6.18 Slides 19.6.18 Covers 19.6.18 Pistons 19.6.18 Rods 19.6.18  
 Connecting rods 19.6.18 Crank shaft 19.6.18 Thrust shaft 19.6.18 Funnel shafts ✓ Screw shaft ✓ Propeller ✓  
 Stern tube ✓ Steam pipes tested ✓ Engine and boiler seatings ✓ Engines holding down bolts ✓  
 Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓  
 Completion of fitting sea connections ✓ Stern tube ✓ Screw shaft and propeller ✓  
 Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓  
 Material of Crank shaft <sup>+ Thrust</sup> Steel Identification Mark on Do. 55287 Material of Thrust shaft ✓ Identification Mark on Do. ✓  
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts ✓ Identification Marks on Do. ✓  
 Material of Steam Pipes ✓ Test pressure ✓  
 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 ✓ If so, state name of vessel ✓

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

These engines were commenced previous to receiving instructions to survey same (See letters E. 5-6-18 + 20-6-18) + were intended for the Admiralty, & now despatched to the Disposal Committee at Hackney Wick, London.

During erection in shop the various parts to the end of crank & thrust shaft (one forging) were examined, the material appears sound, & workmanship good.

This engine now satisfactorily fitted on board. For particulars, please see Survey Report No. 8354, sent herewith.

*John Bucknold*

The amount of Entry Fee ... £ : :  
 Special ... £ 8 : - :  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for, 26 AUG 1920  
 When received, PER SECRETARY'S Ltr OF Oct. 19 1920.

*A. G. Farmer*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

TUE. MAR. 28 1922.



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Certificate (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.

ENCLOSURE.

Lloyd's

E.

Dear Sir

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