

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

TUE. SEP. 25 1923

Date of writing Report 19 When handed in at Local Office 24/9/23 Port of NEWCASTLE-ON-TYNE  
 No. in Survey held at Bill. Way on Tyne Date, First Survey 20 August Last Survey 20 Sept 1923  
 Reg. Book. on the STEEL SCREW STEAMER HARVEST QUEEN (Number of Visits 7) Tons } Gross 168.  
 Net 97.  
 Built at Bill Way By whom built Wood Skinner & Co Yard No. 227. When built 1923. 9.  
 Engines made at Gloucester By whom made W. Sisson & Co Ltd Engine No. 1956 when made 1921. 6  
 Boilers made at Glasgow. By whom made Muir & Findlay Boiler No. 3841 when made 1919. 8  
 Registered Horse Power Owners Spillers & Bakers Ltd Port belonging to Newcastle  
 Nom. Horse Power as per Rule 22.3 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Compound Surface Condensing—please see Bristol report 10760.

Dia. of Cylinders 9 1/2 - 20 Length of Stroke 15 Revs. per minute 225 No. of Cylinders 2 No. of Cranks  
 Dia. of Crank shaft journals as per rule Dia. of Crank pin Crank webs Mid. length breadth Thickness parallel to axis  
 as fitted Mid. length thickness shrunk Thickness around eye-hole  
 Diameter of Thrust shaft under collars as per rule Diameter of Tunnel shaft as per rule Diameter of Screw shaft as per rule Is the Screw shaft  
 as fitted Is the after end of the liner made watertight in the propeller boss

fitted with a continuous liner the whole length of the stern tube  
 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 Is an approved appliance fitted at the after end of the shaft to permit  
 of it being efficiently lubricated Length of Stern Bush fitted with Sealable Diameter of Propeller  
 Pitch of Propeller No. of Blades State whether Moveable Total Surface square feet

No. of Feed Pumps fitted to the Main Engines Diameter of ditto Stroke Can one be overhauled while the other is at work  
 No. of Bilge Pumps fitted to the Main Engines one Diameter of ditto 1 7/8 Stroke 7 fitted with 1 1/2 suction to engine room only.  
 Can one be overhauled while the other is at work

Total number and size of power driven Feed and Bilge Auxiliary Pumps one Duplex pump 5 1/4 x 3 1/2 x 5. Drawing from Hotwell, Engine  
 No. and size of Pumps connected to the Main Bilge Line Room bilge one 2 dia - Hold. P+S. + fore peak one steam ejector from  
 No. and size of Ballast Pumps Engine Room & Hold Suction No. and size of Lubricating Oil Pumps, including Spare Pump

Are two independent means arranged for circulating water through the Oil Cooler none No. and size of connections connected to both Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room as above, Duplex pump suction An additional pump fitted to the bilge pumps and ejector suction  
 from Engine Room and separate ejector suction, fitted main engine bilge pump suction to Engine Room only.  
 Is ejector fitted as an extra pump to avoid this on the bilge pump in small 1 5/8 dia Ram x 7" Stroke.

No. and size of Main Water Circulating Pump Bilge Suctions one 3" Bilge injection No. and size of Donkey Pump Direct Suctions  
 to the Engine Room Bilges one 3" 2 additional direct suction Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes  
 Are the Bilge Suctions in the Machinery-Space led from easily accessible man-boxes, placed above the level of the working floor, with straight tail pipes to the bilges not practically in this case.

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 except ejector discharge which is above deck level.  
 What Pipes are carried through the bunkers none How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes  
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one  
 compartment to another Yes Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record Total Heating Surface of Boilers  
 Forced Draft fitted no Steam blowers in funnel. No. and Description of Boilers one - S Cooled. cyl. multi Working Pressure 140 lbs.  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes Glasgow report 39058 dated 27.8.19  
 IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers  
 (If not state date of approval)  
 General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts two bottom end bolts & nuts, Spare  
 and bearing studs & nuts, set of Coupling bolts & nuts, Spare feed & Bilge pump Valves, assorted  
 raw bolts & nuts, and a few engine room stores and tools.

L. G. Shallcross  
 Newcastle on Tyne.

The foregoing is a correct description

Manufacturer.



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Lloyd's Register  
Foundation

W123-02671

Date of writing  
No. in Survey  
Reg. Book.  
on

Master

Engines made

Boilers made

Registered H

Nom. Horse P

ENGINES

Dia. of Cylind

Is the screw

in the propeller

between the blades

liners are fitted

Dia. of Tunnel

collars 4

No. of Feed pipes

No. of Bilge pumps

No. of Donkey engines

In Engine Room

No. of Bilge Inlets

Are all the bilge

Are all connections

Are they fixed

Are they each fitted

What pipes are

Are all Pipes,

Are the Bilge

Is the Screw

OILERS,

Total Heating

Working Pressure

Can each boiler

each boiler

Smallest distance

Thickness

ong. seams

Per centages of

size of compens

length of plain

Working pressure

Pitch of stays

Material of stay

Material

area at small

Thickness

diameter of tube

itch across

ickness of gir

orking press

diameter

ch of rivets

PERHE

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diameter of Saf

meter of Saf