

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Cornish Merchant

No. 11235

Date of writing Report Sep 20th 1923 When handed in at Local Office Sep 22nd 1923 Port of Bristol Received at London Office MON. 24 SEP. 1923

No. in Survey held at Brimscombe Date, First Survey May 30th 1921 Last Survey Sep 14th 1923
 Reg. Book. on the Engines 1447 (Number of Visits 11)

Built at _____ By whom built _____ Yard No. _____ Tons Gross Not
 Engines made at Brimscombe By whom made J. J. Abдела & Mitchell Engine No. 1447 When built when made
 Boilers made at _____ By whom made _____ Boiler No. _____ when made _____

Registered Horse Power 460 I.H.P. Owners Cornish Bader Ltd. Falmouth Port belonging to _____

Nom. Horse Power as per Rule 80 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines Compound Surface Condensing

Dia. of Cylinders 18" x 38" Length of Stroke 27" Revs. per minute 100 No. of Cylinders 2 No. of Cranks 2
 Dia. of Crank shaft journals as per rule 4 7/8" Dia. of Crank pin 8" Crank webs Mid. length breadth 1 1/2" Thickness parallel to axis 6"
as fitted 8" Mid. length thickness 6" Thickness around eye-hole 3"
 Diameter of Thrust shaft under collars as per rule 4 7/8" Diameter of Tunnel shaft as per rule 8" Diameter of Screw shaft as per rule 8 3/4" Is the Screw shaft
as fitted 8" as fitted 8 3/4"

fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made watertight in the propeller boss yes
 If the liner is in more than one length are the joints burned _____ If the liner does not fit lightly 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 3'-2" Diameter of Propeller 9'-6"
 Pitch of Propeller 10'-9" No. of Blades 4 State whether Moveable no Total Surface 32 square feet.
 No. of Feed Pumps fitted to the Main Engines 1 Diameter of ditto 2 5/8" Stroke 13 1/2" Can one be overhauled while the other is at work _____
 No. of Bilge Pumps fitted to the Main Engines 1 Diameter of ditto 2 5/8" Stroke 13 1/2" Can one be overhauled while the other is at work _____
 Total number and size of power driven Feed and Bilge Auxiliary Pumps _____
 No. and size of Pumps connected to the Main Bilge Line _____
 No. and size of Ballast Pumps _____ No. and size of Lubricating Oil Pumps, including Spare Pump _____
 Are two independent means arranged for circulating water through the Oil Cooler _____ No. and size of suction connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room _____ and in Holds, &c. _____

No. and size of Main Water Circulating Pump Bilge Suctions _____ No. and size of Donkey Pump Direct Suction _____
 to the Engine Room Bilges _____ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes _____
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges _____
 Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 Are they 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 _____
 Are they 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 _____
 What Pipes are carried through the bunkers _____ How are they protected _____
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 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 _____ Is the Screw Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers 1,400 sq
 Is Forced Draft fitted no No. and Description of Boilers One, Return Tube Working Pressure 130
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? _____
 IS A DONKEY BOILER FITTED? _____ 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:—

ISAAC J. ABDELA & MITCHELL, LTD.,
 SHIPBUILDERS & ENGINEERS,
 CANAL IRON WORKS & HOPE MILLS,

The foregoing is a correct description of the machinery of the ship Brimscombe
J. J. Abдела & Mitchell, Ltd., Falmouth, Glos.

J. J. Abдела & Mitchell, Ltd.

Manufacturer.

TUES. 30 MAR 1923

FRI. 23 APR 1923

TUE. 4 DEC 1928

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Lloyd's Register
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W1132-0084

Dates of Survey while building
During progress of work in shops -- 1921 May 30, July 4, Sept. 2, 16, 26, 28, 29 Dec 6, 16 1923 Aug 20 Sept 15th
During erection on board vessel --
Total No. of visits

Dates of Examination of principal parts -- Cylinders 30.5.21 Slides 10.9.21
Covers 10.9.21 Pistons 10.9.21 Rods 11.9.21
Connecting rods 16.9.21 Crank shaft 16.9.21 Thrust shaft
Tunnel shafts Screw shaft Propeller
Stern tube 16.9.21 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 S.M. Ingot Steel Identification Mark on Do. E 1447, 46105 5235 J.R.W.
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 Date of Test
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 the Rules for carrying and burning oil fuel been complied with
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 engines have been built under special survey have been sent to Quenfering to be fitted to Messrs. Abdula Matched No 463. The materials and workmanship are good and will be eligible in my opinion for use of L.M.C. with date when completed. The propeller shaft & thrust shaft have been sent direct from Messrs. Simon.

The amount of Entry Fee ... £2 : 0 : 0 When applied for, 2/5/22
Special ... £8 : 0 : 0 Sep. 20 1923
Donkey Ruler Fee ... £ : : :
Travelling Expenses (if any) £9 : 8 : 4 24.11.23

Committee's Minute FRI. 22 FEB. 1924

TUES. 30 MAR 1926

John W. Gwynne
Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 23 APR 1926

Assigned



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