

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 29th Dec. 19 47 When handed in at Local Office 19 47 Port of NOTTINGHAM Received at London Office 21 JAN 1948

No. in Survey held at NOTTINGHAM Date, First Survey 20.8.47. Last Survey 4.11. 19 47.

Reg. Book on the "ST. CHAD"

Built at By whom built Cook, Welton & Gemmell & Co. Ltd. Engine No. 794. Tons Gross Net

Engines made at Nottingham. By whom made E. Reader & Sons Ltd. Engine No. 24416. When built 1947.

Boilers made at By whom made Boiler No. When made

Registered Horse Power 15 Owners Port belonging to

Nom. Horse Power as per Rule 0'68 M.N. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Trade for which vessel is intended

ENGINES, &c.—Description of Engines Type S.F.6. Enclosed Forced lubricated

Dia. of Cylinders 6" Length of Stroke 31 1/2" No. of Cylinders One Revs. per minute 600.

as per Rule App Crank shaft, dia. of journals 2 1/8" Crank pin dia. 2 1/2" Mid. length breadth 4 1/4" Thickness parallel to axis -

as fitted Crank webs Mid. length thickness 1 1/8" shrunk Thickness around eye-hole -

Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule

as fitted Tube Shafts, diameter as per Rule Screw Shaft, diameter as fitted Is the tube screw shaft fitted with a continuous liner

Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as fitted Is the after end of the liner made watertight in the propeller boss

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

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 Oil Gland or other appliance fitted at the after end of the tube

at If so, state type Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia. Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet

Feed Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

Feed Pumps No. and size How driven Pumps connected to the Main Bilge Line No. and size How driven

Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected both to Main Bilge Pumps and Auxiliary

Bilge Pumps:—In Engine and Boiler Room In Holds, &c.

n Pump Room

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine and/or Boiler 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 Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges 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 pass through the bunkers How are they protected

What pipes pass through the deep tanks Have they been tested as per Rule

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 Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers

Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters

No. and Description of Boilers Working Pressure

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED? If so, is a report now forwarded?

Can the donkey boiler be used for other than domestic purposes

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers

(If not state date of approval)

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes. ✓

State the principal additional spare gear supplied One pair Governor Springs.

The foregoing is a correct description.

E. READER & SONS, LIMITED Manufacturer.

B. B. Singer



012678-012685-0115

Dates of Survey while building {

 During progress of work in shops - - { 20.8.47; 29.10.47; 4.11.47.

 During erection on board vessel - - - {

 Total No. of visits 3

Dates of Examination of principal parts—Cylinders 29.10.47. Slides - Covers 29.10.47.

 Pistons 29.10.47. Piston Rods 29.10.47. Connecting rods 29.10.47.

 Crank shaft 29.10.47. Thrust shaft - Intermediate shafts -

 Tube shaft - Screw shaft - Propeller -

 Stern tube - Engine and boiler seatings - Engines holding down bolts -

 Completion of fitting sea connections -

 Completion of pumping arrangements - Boilers fixed - Engines tried under steam -

 Main boiler safety valves adjusted - Thickness of adjusting washers -

 Crank shaft material O.H.S. Identification Mark 522 T.D.S. Thrust shaft material - Identification Mark -

 Intermediate shafts, material - Identification Marks - Tube shaft, material - Identification Mark -

 Screw shaft, material Identification Mark - Steam Pipes, material 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 the use of oil as fuel been complied with

 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with

 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have 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.

 This machinery has been built under special Survey, in accordance with the approval plans and Regulations of the Society, material and workmanship being good.

 On completion the engine was run in the shops under working conditions and found satisfactory.

 The engine has been forwarded to Newcastle for installation on board the vessel ? Hull.

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

The amount of Entry Fee	£ 4	:	0	:	When applied for,
Special	£	:		:	20-1-1948.
Donkey Boiler Fee	£	:		:	When received,
Travelling Expenses (if any)	£	:		:	19

H Thorburn

Engineer Surveyor to Lloyd's Register of Shipping

Date

Committee's Minute