

Rpt. 4.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

16 FEB 1945

15 FEB 1945

Port of

Sunderland

Date of writing Report

19

When handed in at Local Office

Date, First Survey

1945

Last Survey

17 Aug

1944

(Number of Visits 37)

No. in Survey held at

Reg. Book

on the

J. 14042.

Built at

By whom built

Wm. Dickers Hill & Son Ld.

Yard No.

245.

Tons { Gross

Net

When built

1945.

Engines made at

By whom made

G. Clark (1938) Ld.

Engine No.

1318+1319

When made

Boilers made at

By whom made

Boiler No.

When made

Registered Horse Power

Owners

The Admiralty

Port belonging to

Nom. Horse Power as per Rule

Trade for which vessel is intended

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Government Service.

ENGINES, &c.—Description of Engines

Triple Expansion (Invert Screw)

Revs. per minute

Dia. of Cylinders

18 1/2 - 31 - 38 1/2 (2)

Length of Stroke

30"

No. of Cylinders

8

No. of Cranks

8

Crank shaft, dia. of journals

as per Rule

10.039"

Crank pin dia.

10 1/2"

Crank webs

Mid. length breadth

16 3/4"

Mid. length thickness

6 1/2"

Thickness parallel to axis

shrunken

Thickness around eye

Journal 6 1/2"

Pin 4 3/4"

Intermediate Shafts, diameter

as per Rule

as fitted

Thrust shaft, diameter at collars

as per Rule

as fitted

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

Is the { tube screw } shaft fitted with a continuous liner {

Bronze Liners, thickness in way of bushes

as per Rule

as fitted

Thickness between bushes

as per Rule

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

Length of Bearing in Stern Bush next to and supporting propeller

Total Developed Surface sq. feet

Can one be overhauled while the other is at work

Can one be overhauled while the other is at work

Pumps connected to the { No. and size

Main Bilge Line { How driven

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

Suctions, connected to both Main Bilge Pumps and Auxiliary

Are two independent means arranged for circulating water through the Oil Cooler

In Holds, &c.

Independent Power Pump Direct Suctions to the Engine Room Bilges,

Main Water Circulating Pump Direct Bilge Suctions, No. and size

No. and size

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 fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

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

What Pipes pass through the bunkers

What pipes pass through the deep tanks

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?

If so, is a report now forwarded?

IS A DONKEY BOILER FITTED?

Can the donkey boiler be used for domestic purposes only

Main Boilers

Auxiliary Boilers

Donkey Boilers

PLANS. Are approved plans forwarded herewith for Shafting

(If not state date of approval)

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

Superheaters

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

The foregoing is a correct description.

GEORGE CLARK (1938) LTD.

Archd. J. Berry

Manufacturer.



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Lloyd's Register Foundation

003245-003251-0182

Dates of Survey while building

During progress of work in shops - - 1943 Nov. 17, 1944 Jan. 12, 14, 22, 25, 27 Feb. 4, 10, 28, Mar. 2, 6, 7, 13, 14, 17, 20, 22, 31, April 12, 25, 26, May 4, 9, 15, 26, 31, June 1, 6, 9, 15, 22, 27, July 12, 18, Aug. 2, 7.

During erection on board vessel - - -

Total No. of visits 37

H.P. M.P. L.P. L.P.₂

1318. 12/4/44 13/5/44 13/5/44 20/3/44 1318 9/5/44 1319 9/6/44

Cylinders 1318. 7/3/44 1319. 22/3/44 Piston Rods 1318. 20/3/44 1319. 31/3/44 Connecting rods 1318. 14/3/44 1319. 31/3/44

Crank shaft 1318. 12/2/44 Thrust shaft 14/3/44. (Pool order) Intermediate shafts

1319. 6/3/44 Tube shaft - Screw shaft 14/8/44. (Pool order) 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 Ingot Steel Identification Mark 1318. N° 1318 WNF. 28/2/44 Thrust shaft material Ingot Steel Identification Mark S.8019 + S.4428 WNF. 17/3/44

Intermediate shafts, material Identification Marks 1319. N° 1319 WNF. 6/3/44 Tube shaft, material Identification Mark

Screw shaft, material Ingot Steel Identification Mark W.N.F. 14/8/44 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 (Engine only) has been built under Special Survey in accordance with the approved Plans, Specification & the rules of the Society. The materials & workmanship are good.

This machinery will be installed under the Survey of the British Corporation of Shipping & Aircraft.

Certificate to be sent to

The amount of Entry Fee ... £ : : When applied for, 5 FEB 1945

Special Specification ... £ 45 - : : When received, London

Dock & Boiler Fee ... £ : : 19

Travelling Expenses (if any) £ : : 19

W. H. K. K. K.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned Not for classing committee