

Rpt. 4.

No. 69201.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 11 JAN 1945

Date of writing Report 19 1945 When handed in at Local Office 8-1-45 Port of Glasgow
 No. in Survey held at Penryn Date, First Survey 15-12-43 Last Survey 17-11-1944
 Reg. Book 1 (Number of Visits 24) Tons { Gross _____ Net _____
 on the _____ Yard No. _____ When built _____
 Built at _____ By whom built _____ Engine No. 1068 When made 1944
 Engines made at Penryn By whom made Loputy & Co. Ltd. Boiler No. _____ When made _____
 Boilers made at _____ By whom made _____
 Registered Horse Power _____ Owners The Admiralty Port belonging to _____
 Nom. Horse Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____
 Trade for which vessel is intended _____

ENGINES, &c.—Description of Engines Triple expansion 4 cylinders Revs. per minute 185
 Dia. of Cylinders 18 1/2" - 31" - 38 1/2" - 38 1/2" Length of Stroke 30" No. of Cylinders 4 No. of Cranks 4
 Crank shaft, dia. of journals 10 1/2" as per Rule 10 0/4" Crank pin dia. 10 1/2" Crank webs Mid. length breadth 16 3/4" Thickness parallel to axis 6 1/2"
 as fitted 10 1/2" Mid. length thickness 6 1/2" shrunk Thickness around eye-hole 4 3/4"
 Intermediate Shafts, diameter _____ as per Rule _____ Thrust shaft, diameter at collars _____ as fitted _____

Tube Shafts, diameter _____ as per Rule _____ Screw Shaft, diameter _____ as per Rule _____
 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. none Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 Bilge Pumps worked from the Main Engines, No. none 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 to both Main Bilge Pumps and Auxiliary _____
 Bilge Pumps:—In Engine and Boiler Room _____ In Holds, &c. _____
 In Pump Room _____

Main Water Circulating Pump Direct Bilge Suctions, No. and size _____ Independent Power Pump Direct Suctions to the Engine Room Bilges, _____
 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 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? _____ If so, is a report now forwarded? _____
 IS A DONKEY BOILER FITTED? _____

Can the donkey boiler be used for domestic purposes only _____
 PLANS. Are approved plans forwarded herewith for Shafting 5-12-40 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, as per Admiralty requirements.
 State the principal additional spare gear supplied _____

The foregoing is a correct description.
 ROBINSON & Co., LIMITED
 25 Wallace.

Manufacturer.



During progress of work in shops - - { 1943 Dec 15 1944 Jan 14 Feb 17 Mar 3 12 17 21 24 30 Apr 5 18 19 May 19 Jun 20 Jul 11 19 Aug 8 18 28 29
 Oct 6 Nov 15 17
 Dates of Survey while building {
 During erection on board vessel - - - {
 Total No. of visits 24

Dates of Examination of principal parts—Cylinders 30-3-44 Slides 8-8-44 Covers 30-3-44
 Pistons 20-6-44 Piston Rods 20-6-44 Connecting rods 28-8-44
 Crank shaft 18-4-44 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 SM Steel Identification Mark LSN 12602 TP 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 - See Annex 2-8.
 Is this machinery duplicate of a previous case Yes If so, state name of vessel Gls Rpt. No 68693

General Remarks (State quality of workmanship, opinions as to class, &c.) This engine has been constructed in accordance with the approved plans and specifications, and as otherwise modified and approved by the Admiralty. The materials have been tested as required by the Rules, and the workmanship is good. It has been sent to storage at Salween to await installation in a vessel building by Messrs Harland & Wolff, Ltd.

RGE 8-1-45

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 ... £	:	:	When applied for,
Special ...	£ 22	10	9 JAN 1945
SPECIAL FEE Donkey Boiler Fee ...	£ 22	10	When received,
Travelling Expenses (if any) £	:	:	19

ADMIRALTY
 M. J. ... + M. P. ...
 Engineer Surveyors to Lloyd's Register of Shipping.
 (No rendered from London 19.1.45)

Committee's Minute ... GLASGOW 9 JAN 1945
 Assigned Deferred for completion



Rpt. EC. 18 Date N Reg. Bu. Eng. Box No. W Da of No Is No eac Ar Sm Sto Ra Ci La Da W Ra in we lo. P. P. T. S. T. In D. b. W. T. S. T. o. l. E. P. T. C.