

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 25 AUG 1941

Date of writing Report 19 When handed in at Local Office 20. 8. 1941 Port of Belfast

No. in Survey held at Belfast Date, First Survey 25 Jan 1941 Last Survey 13 Aug 1941

Reg. Book. on the STEEL SC "CONSLIP" (Number of Visits 80.)

Gross 811.39
Net 301.14

Built at Belfast By whom built Messrs Harland, Wolff Ltd Yard No. 1105 When built 1941

Engines made at Belfast By whom made Harland, Wolff Ltd Engine No. 1102 when made 1941

Boilers made at Belfast By whom made Harland, Wolff Ltd Boiler No. 1102 when made 1941

Registered Horse Power 399 Owners The Admiralty Port belonging to -

Nom. Horse Power as per Rule 399 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended Admiralty Service

ENGINES, &c.—Description of Engines Four Cylinder Inverted Triple Expansion Revs. per minute 185

Dia. of Cylinders 18 1/2" x 31" x 38 1/2" x 38 1/2" Length of Stroke 30" No. of Cylinders 4 No. of Cranks 4

Crank shaft, dia. of journals as per Rule 10.035" as fitted 10 1/2" Crank pin dia. 10 1/2" Crank webs Mid. length breadth 16 3/4" Thickness parallel to axis 6 1/2"

Intermediate Shafts, diameter as per Rule 9.557" as fitted 10 1/4" at ends increased to 15 1/4" in body Thrust shaft, diameter at collars as per Rule 10.035" as fitted 10 1/2"

Tube Shafts, diameter as per Rule 10.432" as fitted 10 1/8" Is the tube shaft fitted with a continuous liner Yes

Bronze Liners, thickness in way of bushes as per Rule 5/8" as fitted 5/8" Thickness between bushes as per Rule 1 1/2" as fitted 1 1/2" 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 junctions made by fusion through the whole thickness of the liner One length

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 Yes

If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft No If so, state type -

Propeller, dia. 10' 6" Pitch 10' 8" No. of Blades 3 Material Man. Bronze Length of Bearing in Stern Bush next to and supporting propeller 5' 0"

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 2 off 8 1/2" x 6" x 18" Main Pumps connected to the { No. and size 2 off 50 tons/hr each - One 5" Donkey Pump

{ How driven Steam Main Bilge Line { How driven Steam

Ballast Pumps, No. and size As for Bilge Lubricating Oil Pumps, including Spare Pump, No. and size -

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

Bilge Pumps;—In Engine and Boiler Room ENG. ROOM 2 x 3" BOILER ROOM 4 x 3" (including the 3 direct

In COMPARTMENTS 12 x 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 2 9 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 2 3" in E.R. + one 2 3" in each B.R. Room

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 mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Overboard Discharges above or below the deep water line At water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What Pipes pass through the bunkers None (Leaking Cocks only) How are they protected -

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

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

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 6852 sq ft

Is Forced Draft fitted Yes No. and Description of Boilers 2 S.E. Multitubular "Howden Johnson" Working Pressure 225 lbs/sq

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? -

PLANS. Are approved plans forwarded herewith for Shafting (If not state date of approval) Plan approved at London

Superheaters - General Pumping Arrangements - Oil fuel Burning Piping Arrangements -

SPARE GEAR. State the articles supplied:— As per Rule Requirements

Please see attached list.

The foregoing is a correct description,
For HARLAND AND WOLFF, LIMITED,

A T Marshall
Secretary.

Manufacturer.



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Lloyd's Register
Foundation

W1024-0216

1941
 Jan 25 Feb 21, 24, 25 Mar 3, 5, 6, 7, 14, 15, 18, 20, 25, Apr 4, 5, 6, 7, 10, 15, 18, 22, 26 May 13
 During progress of work in shops - - 10, 13, 14, 15, 16, 19, 20, 22, 23, 26, 27, 29, 31 June 2, 5, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30
 Dates of Survey while building During erection on board vessel - - - July 2, 3, 4, 7, 8, 9, 16, 17, 18, 19, 21, 22, 23, 24, 25, 28, 30 Aug 4, 5, 6, 7, 8, 9, 13
 Total No. of visits 80

Dates of Examination of principal parts—Cylinders 21.3.41 to 24.4/ Slides 21.3.41 to 24.4/ Covers 21.3.41 to 24.4/
 Pistons 4.4.41 Piston Rods 4.4.41 Connecting rods 3.4.41
 Crank shaft 28.3.41 Thrust shaft 17.2.41 Intermediate shafts 1.3.41
 Tube shaft ✓ Screw shaft 19.5.41 Propeller 3.5.41
 Stern tube 20.5.41 Engine and boiler seatings 27.5.41 Engines holding down bolts 17.6.41
 Completion of fitting sea connections 27.5.41
 Completion of pumping arrangements 24.7.41 Boilers fixed 11.6.41 Engines tried under steam 24.7.41 & 6.8.41
 Main boiler safety valves adjusted 24.7.41 Thickness of adjusting washers FORD R.R. P 3/32" S 1/32" AFTER RLR P 1/32" S 3/64"
 Crank shaft material Steel Identification Mark LLOYDS No. 1027 21.3.41 Thrust shaft material Steel Identification Mark LLOYDS No. 376 RS. 17.2.41
 Intermediate shafts, material Steel Identification Marks LLOYDS No. 376 RS. 1.3.41 Tube shaft, material ✓ Identification Mark -
 Screw shaft, material Steel Identification Mark LLOYDS No. 379 GTF 19.5.41 Steam Pipes, material S.D. Steel Test pressure 675 lbs/sq. in. Date of Test 29.1.41 / 12.6.41
 Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes
 Have the requirements of the Rules for the use of oil as fuel been complied with Yes
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No If so, have the requirements of the Rules been complied with ✓
 Is this machinery duplicate of a previous case Yes If so, state name of vessel "ABEHA" etc BEL. Reg. No 12885

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been constructed under Special Survey in accordance with the Rules and approved plans.
 The materials and workmanship are good.
 This machinery has been efficiently installed aboard the vessel and tried out under full working conditions at sea, with satisfactory results.
 In my opinion the vessel is eligible for the notation of
 LMC S, 41 CL 2SB 225 lbs. F.D.

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 ... £ 170	:	:	21. 8. 1941
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19

R. Lee Hume
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 Fri. 29 AUG 1941
 Lmb. S. 41
 Fitt. for oil fuel S. 41 &
 2D., CL.