

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office APR 10 1940

of writing Report 19 When handed in at Local Office 9/4/40 Port of Newcastle-on-Tyne
in Survey held at Wallsend on Tyne. Date, First Survey 31st Aug/1939 Last Survey Apr. 2d 1940
Book. (Number of Visits 4)
36. on the S.S. "Glenwood"
built at Sunderland By whom built Sir J. Laing & Sons Ltd Yard No. 728 Tons Gross
Engines made at Wallsend on Tyne By whom made N.E. Marine Eng Co (1938) Ltd Engine No. 2959 When built 1940-4
Boilers made at " By whom made " Boiler No. 2959 When made 1940
Registered Horse Power Owners J.I. Jacobs & Co Ltd Port belonging to London
Horse Power as per Rule 365 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes
made for which Vessel is intended Ocean going

GINES, &c.—Description of Engines Triple Expansion Revs. per minute 59.
No. of Cylinders 23-38-65 Length of Stroke 42 No. of Cylinders 3 No. of Cranks 3
Main shaft, dia. of journals as per Rule 12.81" as fitted 13" Crank pin dia. 13" Crank webs Mid. length breadth 1'-10" Thickness parallel to axis 8"-8 3/8" (MP)
Intermediate Shafts, diameter as per Rule 12.2" as fitted 12 1/2" Thrust shaft, diameter at collars as per Rule 12.81" as fitted 13"
Main Shafts, diameter as per Rule 13.7" as fitted 14 1/2" Is the shaft fitted with a continuous liner? yes
Bronze Liners, thickness in way of bushes as per Rule 72" as fitted 75" Thickness between bushes as per Rule 53" as fitted 53" 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? yes
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
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? yes
If so, state type Length of Bearing in Stern Bush next to and supporting propeller 5'-0"
Propeller, dia. 18'-0" Pitch 18'-0" No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface 113.5 sq. feet
Suction Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 1'-10 1/2" Can one be overhauled while the other is at work? yes
Feed Pumps No. and size 1 @ 7'-5-8" & 2 @ 6'-8 1/2" x 18" Pumps connected to the Main Bilge Line No. and size 1 @ 9" x 11" x 10" & 2 @ 3 1/2"
How driven Steam How driven Steam Main Engines
Ballast Pumps, No. and size 1 @ 9'-11-10 Lubricating Oil Pumps, including Spare Pump, No. and size 1
Are two independent means arranged for circulating water through the Oil Cooler? yes Suctions, connected to both Main Bilge Pumps and Auxiliary
Bilge Pumps;—In Engine and Boiler Room 2 @ 3" Eng Room 2 @ 3 1/2" Boiler Room
In Pump Room In Holds, &c. 3" Fore Hold P.T.S. 3 1/2" Main Hold P.T.S.
3 1/2" Main Hold A" P.T.S. 3" Aft Main Hold P.T.S. 1 @ 3" No 5 Hold 1 @ 3" after well
Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 7" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 5" (Ballast Pump)
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? both with discharge valves
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? yes
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 How are they protected? yes
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? yes worked from top platform

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 5075 sq. ft.
Is Forced Draft fitted? yes (Main only) No. and Description of Boilers 25 B & 1 Aux SB Working Pressure 220
IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
IS A DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes
Is the donkey boiler intended to be used for domestic purposes only? yes
PLANS. Are approved plans forwarded herewith for Shafting? yes Main Boilers yes Auxiliary Boilers yes Donkey Boilers yes
(If not state date of approval)
Superheaters yes General Pumping Arrangements yes Oil fuel Burning Piping Arrangements yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied? yes including poppet Valve Spares HP & MP
State the principal additional spare gear supplied 1 Screw Shaft 1 C.I. propeller
1 set of patent metal packing for 1st valve rod 1 set of patent rings for MP & LI pistons 2 Main Bearing bolts & nuts
Sundry spares for furnaces, superheaters &c.

The foregoing is a correct description,
THE NORTH EASTERN MARINE ENGINEERING CO. (1930) LTD.

John Neill

DIRECTOR & GENERAL MANAGER.

Manufacturer.



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Lloyd's Register
Foundation

004881-004885-0036

1939
During progress of work in shops - - Aug. 31. Sep. 4. 11. Oct. 4. 16. 19. Nov. 17. Dec. 11. 22. 28. 1940
5. 6. 7. 8. 12. 13. 14. 15. 19. 20. 21. 22. 23. 27. 29. Jan. 1. 5. 7. 8. 12. 14. 15. 26. 29. Apr. 26
Dates of Survey while building
During erection on board vessel - - -
Total No. of visits 41.

Dates of Examination of principal parts—Cylinders 15.2.40 Slides 15.2.40 Covers 15.2.40
Pistons 24.1.40 Piston Rods 2.2.40 Connecting rods 2.2.40
Crank shaft 17.11.39 Thrust shaft 4.10.39 Intermediate shafts 28.12.39
Tube shaft ✓ Screw shaft 5.1.40 Propeller 2.2.40
Stern tube 3.1.40. 15.1.40 Engine and boiler seatings 12.3.40 Engines holding down bolts 12.3.40
Completion of fitting sea connections 26.1.40
Completion of pumping arrangements 28.3.40 Boilers fixed 12.3.40 Engines tried under steam 27.28/3/40
Main boiler safety valves adjusted 27.3.40 Thickness of adjusting washers P 3/8 S 3/8 Spt 1/4 S 5/8 Spt 3/16 Aux 5/32
Crank shaft material S Identification Mark 2959 RM 17.11.39 Thrust shaft material S Identification Mark 8781 HAI 500.501.2.4.5.7+8
Intermediate shafts, material S Identification Marks 2959 RM 28.12.39 Tube shaft, material ✓ Identification Mark 8781 HAI 498.499
Screw shaft, material S Identification Mark 2959 RM 51.40 Steam Pipes, material S Test pressure 660 Date of Test 29.2.5.8.12.14.1940
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 yes If so, state name of vessel "Beechwood" Nov. 98187.

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been made & installed under Special Survey in accordance with the approved plans & the requirements of the Rules

The materials & workmanship are good & the machinery proved satisfactory under working conditions

The machinery is eligible in my opinion to have the Records + LMC 4.40 Rht 2SB (Spt) 9.1 Aux SB F.D. C.L.

The amount of Entry Fee ... £ 5 : 0 : 0 When applied for,
Special ... £ 79 : 15 : 0 -9 APR 1940
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 12.11.19

R. C. Moffatt
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned Lamb. 4.40
2 SB (Spt) 9.1
1 Aux SB Rht.