

Bel 14265
No. 103515

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Writing Report 2nd Feb 1946 When handed in at Local Office 22nd Feb 1946, Port of NEWCASTLE-ON-TYNE
Survey held at Wallsend on Tyne Date, First Survey (1945) Sept. 20th Last Survey Jan. 28th 1946
Book "BALAENA" (Number of Visits 14)
on the "BALAENA" Tons { Gross
Net
By whom built Wallsend on Tyne Yard No. 1946
When built 1946
By whom made N.E. Mar. Eng. Co. (1938) Ltd Engine No. 3132
When made 1946
By whom made Harland & Wolff Ltd. Engine No. 1327
When made 1946

Indicated Horse Power 29.3 Owners Wallsend on Tyne Port belonging to Wallsend on Tyne
Horse Power as per Rule 29.3 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No
for which vessel is intended Wallsend on Tyne

ES, &c.—Description of Engines Two Sets - 3 Cylr Triple Expn (Re-heat type) Revs. per minute ✓
Cylinders 27, 44, 76" Length of Stroke 51" No. of Cylinders SIX No. of Cranks ✓

Shaft, dia. of journals as per Rule Crank pin dia. as per Rule Mid. length breadth as per Rule Thickness parallel to axis as per Rule
as fitted Mid. length thickness as fitted Thickness around eye-hole as fitted
Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule
as fitted as fitted

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

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

er boss as per Rule If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner as fitted
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 as fitted
liners are fitted, is the shaft lapped or protected between the liners as fitted Is an approved Oil Gland or other appliance fitted at the after end of the tube as fitted

If so, state type as fitted Length of Bearing in Stern Bush next to and supporting propeller as fitted
Pitch as fitted No. of Blades as fitted Material as fitted whether Moveable as fitted Total Developed Surface as fitted sq. feet as fitted

Pumps worked from the Main Engines, No. as fitted Diameter as fitted Stroke as fitted Can one be overhauled while the other is at work as fitted
Pumps worked from the Main Engines, No. as fitted Diameter as fitted Stroke as fitted Can one be overhauled while the other is at work as fitted
No. and size as fitted Pumps connected to the Main Bilge Line as fitted No. and size as fitted
How driven as fitted How driven as fitted

Pumps, No. and size as fitted Lubricating Oil Pumps, including Spare Pump, No. and size as fitted
No independent means arranged for circulating water through the Oil Cooler as fitted Suctions, connected to both Main Bilge Pumps and Auxiliary as fitted
Pumps:—In Engine and Boiler Room as fitted In Holds, &c. as fitted

Water Circulating Pump Direct Bilge Suctions, No. and size as fitted Independent Power Pump Direct Suctions to the Engine Room Bilges, as fitted
Size as fitted Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes as fitted
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 as fitted

Sea Connections fitted direct on the skin of the ship as fitted Are they fitted with Valves or Cocks as fitted
Are fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates as fitted Are the Overboard Discharges above or below the deep water line as fitted
Are each fitted with a Discharge Valve always accessible on the plating of the vessel as fitted Are the Blow Off Cocks fitted with a spigot and brass covering plate as fitted
Pipes pass through the bunkers as fitted How are they protected as fitted
Pipes pass through the deep tanks as fitted Have they been tested as per Rule as fitted

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times as fitted
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 as fitted
Department to another as fitted Is the Shaft Tunnel watertight as fitted Is it fitted with a watertight door as fitted worked from as fitted

BOILERS, &c.—(Letter for record as fitted) Total Heating Surface of Boilers as fitted
Boilers are fitted with Forced Draft as fitted Which Boilers are fitted with Superheaters as fitted
Description of Boilers as fitted Working Pressure as fitted

REPORT ON MAIN BOILERS NOW FORWARDED? as fitted
DONKEY BOILER FITTED? as fitted If so, is a report now forwarded? as fitted
e donkey boiler be used for domestic purposes only as fitted

NS. Are approved plans forwarded herewith for Shafting as fitted Main Boilers as fitted Auxiliary Boilers as fitted Donkey Boilers as fitted
(If not state date of approval) as fitted
eaters as fitted General Pumping Arrangements as fitted Oil fuel Burning Piping Arrangements as fitted

SPARE GEAR.
e spare gear required by the Rules been supplied as fitted For Piston Rods, Valves & rods, & for Piston Valves, as fitted
e principal additional spare gear supplied as fitted

One Piston Rod with nuts as fitted Poppet Valve Gear:—
One Guide Shoe complete, as fitted 2 Values (1 for HP, 1 for MP) as fitted
One L.P. Valve spindle complete, as fitted 2 Rollers with pins & 2 Roller Bearings as fitted
One safety packing rings & springs for ONE HP piston. as fitted 2 Main Springs (1 for HP, 1 for MP). as fitted
One " " " " for each MP. " as fitted 2 Roller Springs " " " as fitted
One " " " " for each L.P. " as fitted 2 Spindles & bushes for spring ends. as fitted
One set wearing parts & springs for each Piston Rod, as fitted 4 " " " for Valve cage covers as fitted
One " " " " for each L.P. Valve Rod, as fitted 2 Poppet guide bushes as fitted
contd. as fitted

The foregoing is a correct description. as fitted
THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD. as fitted Manufacturer. as fitted
DIRECTOR & RESIDENT MANAGER. as fitted

© 2020
CONT'D OVER. as fitted
Lloyd's Register
009557-009561-0727

(1945) Sept. 20, Nov. 6, 22, 30 Dec. 5, 7, 13, 13, 18, 19, 21, (1946) Jan. 10, 21, 28

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 14

Dates of Examination of principal parts—Cylinders 6th/11/45 to 19/12/45 Slides 12-12-45 Covers as cylinder

Pistons 12-12-45 Piston Rods 28-1-46 Connecting rods ✓

Crank shaft ✓ 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 Identification Mark 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.)

These Cylinders are intended for Harland & Wolff Ltd, Belfast for their Engines No 1327. They have been constructed by N.E. MacEnery (1938) Ltd, Wallsend on Tyne under their order Contract No 3132 which comprises the two sets of Cylinders for Port & Starboard Engines, viz. H.P. M.P. & L.P. with Covers, pistons & p. rods, Valves & V. rods (the H.P. & M.P. being Poppet Valves), together with an 8" C Stl main Engine Stop Valve and Re-heater with fittings for each engine. They have been constructed under survey in accordance with the Society's Rules, and the material and workmanship are good.

After partly dismantling and packing, they are to be dispatched to Belfast to be built into the H & W Engines No 1327. Attached are Balance Casting Reports for the Cylinders made by N.E. MacEnery (Rpt 7a. H.W. Cert. No [22037]), together with Rpt 7a. for other Engines and forgings etc.

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

Special ... £ : : 19

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ : : 19

Committee's Minute ... FRI 22 NOV 1946

Assigned ... See F.E. mch. rpt.

A. Watt,

Engineer Surveyor to Lloyd's Register of Shipping



© 2020

Lloyd's Register Foundation