

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 23/1/42 When handed in at Local Office 24/1/42 Port of GLASGOW 11 MAY 1942

No. in Survey held at Pailey Date, First Survey 7.2.41 Last Survey 15/1/1942
Reg. Book. (Number of Visits 27)

on the Mug "Empire Spruce" Tons {Gross Net
Built at Thorne By whom built R. Dunston Ltd Yard No. 364 When built 1942

Engines made at Pailey By whom made McKie & Baxter Ltd Engine No. 1333 When made 1942

Boilers made at Glasgow By whom made John Thompson & Sons Boiler No. 5166 When made 1941

Registered Horse Power _____ Owners _____ Port belonging to _____

Net Horse Power as per Rule 85 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 140

Dia. of Cylinders 12-20-32 Length of Stroke 22 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 6.44 Crank pin dia. 6 1/2 Crank webs Mid. length breadth _____ Thickness parallel to axis 4 1/8
as fitted 6 1/2 Mid. length thickness _____ shrunk Thickness around eye-holes 2 1/8 journal 2 1/8 pins

Intermediate Shafts, diameter as per Rule 6.13 Thrust shaft, diameter at collars as per Rule 6.44
as fitted 6 1/4 as fitted 6 1/2

Stem Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule 7.12 Is the {tube screw} shaft fitted with a continuous liner { no }
as fitted _____ as fitted 7 1/8

Bronze 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 _____

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 _____
If so, state type Newark Length of Bearing in Stern Bush next to and supporting propeller 29

Propeller, dia. 8-3 Pitch 10-0 No. of Blades 4 Material best iron whether Moveable Solid Total Developed Surface 24 sq. feet

Feed Pumps worked from the Main Engines, No. one Diameter 2 1/2 Stroke 12 Can one be overhauled while the other is at work _____
Main Bilge Pumps worked from the Main Engines, No. one Diameter 2 1/2 Stroke 12 Can one be overhauled while the other is at work _____

Feed Pumps { No. and size _____ Pumps connected to the { No. and size _____
How driven _____ Main Bilge Line 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. _____

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 filled 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 _____

Do the Pipes pass through the bunkers _____ How are they protected _____

Do the 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 S) Total Heating Surface of Boilers 1356 sq

Is Forced Draft fitted Yes No. and Description of Boilers 1-Single Ended Working Pressure 200 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? No.

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

Is the donkey boiler intended to be used for domestic purposes only _____

PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
(If not state date of approval)

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

SPARE GEAR.

Is the spare gear required by the Rules been supplied _____

State the principal additional spare gear supplied Yes as per attached list.

The foregoing is a correct description.

FOR MCKIE & BAXTER, LIMITED,

Manufacturer.

[Signature]
DIRECTOR



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1941 Feb: 7 May 21 June 12-26 July 28-16-31 Sep: 2-10-20-29 Oct 6-15-25-27-29 Nov 1-7-18 Dec: 15-22-30 (1942) Jan: 7-13-14-15

Dates of Survey while building: During progress of work in shops - - - }
 During erection on board vessel - - - }
 Total No. of visits: 27

Dates of Examination of principal parts: Cylinders 10-9, 27-10-41 Slides 29-10-41 Covers 10-9, 27-10-41
 Pistons 2-9-41 Piston Rods 29-10-41 Connecting rods 29-10-41
 Crank shaft 6-10-41, 24-12-41 (FR) Thrust shaft 15-12, 7-1-42 Intermediate shafts 15-12, 7-1-42
 Tube shaft - Screw shaft 15-12, 7-1-42 Propeller 7-1-42
 Stern tube 7-1-42 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 O.H. Steel Identification Mark NO 10347 Thrust shaft material O.H. Steel Identification Mark NO 419
 Intermediate shafts, material O.H. Steel Identification Marks NO 419 Tube shaft, material - Identification Mark -
 Screw shaft, material Steel Identification Mark T 12-11-41 Steam Pipes, material - Test pressure - Date of Test -
 Is an installation fitted for burning oil fuel No 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 No. 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 R. Dunston Yard No 361
 General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been covered

under Special Survey in accordance with the Rule Requirements approved plans, & also in accordance with the specified approved plans. The workmanship & materials are good.
 The engine has been dispatched to Hull for installation in Messrs. Richard Dunston Yard No 364.

Are coupling bolts supplied, or is vessel intended only for short voyages? Yes for short sea service

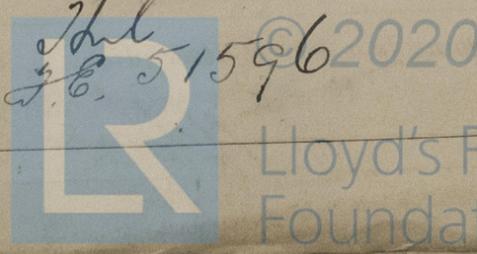
Certificate to be sent to

The amount of Entry Fee	£ 2	:	-	:	When applied for,
Special	2/5-0	8	10	3 FEB 1942	
Spec 25% of 18-10					
Donkey Boiler Fee	£ 2	:	2/6	When received,	
Travelling Expenses (if any)	£	:	:	19	

Committee's Minute GLASGOW 3 FEB 1942
 Assigned Deferred

R. J. Easthope & J. P. Gibbons
 Engineer Surveyors to Lloyd's Register of Shipping.

FRL 15 MAY 1942



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