

LINE SHAFTING FOR
REPORT ON OIL ENGINE MACHINERY.

No. 102644

ing Report 2nd March 1936 When handed in at Local Office

19 Port of London

Date, First Survey 15th January 1936 Last Survey 2nd March 1936

Number of Visits 5

Survey held at Newbury.

on the ^{Single} ~~Double~~ ^{Triple} ~~Quadruple~~ Screw vessel m/v PLOYER

Tons { Gross 35.2
Net 16.6

Boilers made at Dundee
Boilers made at Newbury

By whom built Caledon Shipbuilding & Engineering Co.

Yard No. 556 When built 1936

By whom made Plenty & Son Ltd.

Engine No. R/8709 When made 1936

By whom made

Boiler No. When made

orse Power 500

Owners General Steam Navigation Co. Ltd.

Port belonging to

se Power as per Rule 125

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

which vessel is intended

GINES, &c. Type of Engines Heavy oil (Atlas Diesel) 2 or 4 stroke cycle 2 Single or double acting Single

essure in cylinders 55 kg/cm² Diameter of cylinders 340 mm Length of stroke 570 mm No. of cylinders 4 No. of cranks -

ings, adjacent to the Crank, measured from inner edge to inner edge Is there a bearing between each crank -

er minute 220 Flywheel dia. 1550 mm Weight 2030 kg Means of ignition - Kind of fuel used -

ft. dia. of journals as per Rule as fitted Crank pin dia. Crank Webs Mid. length breadth Mid. length thickness shrunk Thickness parallel to axis Thickness around eyehole

shaft, diameter as per Rule as fitted Intermediate Shaft, diameter as per Rule 5.43" 5.45" rule type Thrust Shaft, diameter at collars as per Rule as fitted

t, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 6.22" 6.5" Is the tube screw shaft fitted with a continuous liner No liner

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

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner -

oes 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 -

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 Cedarwall Length of Bearing in Stern Bush next to and supporting propeller 29 1/2"

rods 2 dia. 6.7 1/2" Pitch 6'-0" No. of blades 4 Material Cast iron whether Moveable Solid Total Developed Surface 16 1/4 sq. feet

reversing Engines Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of Lubrication

Thickness of cylinder liners Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with

g material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

ter Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

s worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

ected to the Main Bilge Line { No. and Size How driven

ups, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

endent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

nd size:—In Machinery Spaces Pump Room

Power Pump Direct Suctions to the Engine Room Bilges, No. and size

Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces

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

connections fitted direct on the skin of the ship Are they fitted with valves or Cocks

sufficiently high on the ship's side to be seen without lifting the platform plates Are the Overboard Discharges above or below the deep water line

itted 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

ss through the bunkers How are they protected

ss through the deep tanks Have they been tested as per Rule

Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

ment 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

another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

el, what means are provided to prevent leakage of either fuel oil or lubricating oil from saturating the woodwork

mpressors, No. No. of stages Diameters Stroke Driven by

r Compressors, No. No. of stages Diameters Stroke Driven by

ary Air Compressors, No. No. of stages Diameters Stroke Driven by

Air Pumps, No. Diameter Stroke Driven by

gines crank shafts, diameter as per Rule as fitted

EIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

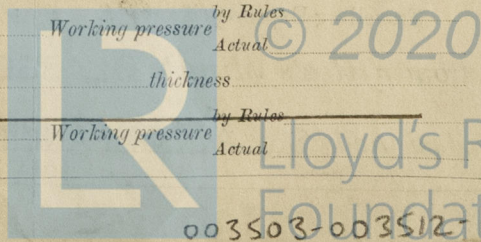
al surfaces of the receivers be examined and cleaned Is a drain fitted at the lowest part of each receiver

re Air Receivers, No. Cubic capacity of each Internal diameter thickness

elded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules Actual

Receivers, No. Total cubic capacity Internal diameter thickness

elded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules Actual



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 7.1.36
(If not, state date of approval)

Receivers

Separate Tanks

Donkey Boilers

General Pumping Arrangements

Oil Fuel Burning Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied?

State the principal additional spare gear supplied 1 Propeller

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops - 1936 Jan. 15, Feb. 5, 14, 21 March 2 = 5 visits
During erection on board vessel -
Total No. of visits

Dates of Examination of principal parts - Cylinders Covers Pistons Rods Connecting rods

Crank shaft Flywheel shaft Thrust shaft Intermediate shafts 14.2.36 Tube shaft

Screw shaft 14.2.36 Propeller 21.2.36 Stern tube 14.2.36 Engine seatings Engines holding down bolts

Completion of fitting sea connections Completion of pumping arrangements Engines tried under working conditions

Crank shaft, Material Identification Mark Flywheel shaft, Material Identification Mark

Thrust shaft, Material Identification Mark Intermediate shaft, Material 9.2.36 Identification Marks

Tube shaft, Material Identification Mark Screw shaft, Material 9.2.36 Identification Mark

Is the flash point of the oil to be used over 150° F.

Have the requirements of the Rules for oil fuel pipes and tank fittings 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~~ ^{Stem Gear} duplicate of a previous case 1/2 If so, state name of vessel m/v Mallard

General Remarks (State quality of workmanship, opinions as to class, &c. Workman ship good.

This Stem gear has been examined whilst being machined and when finished is in accordance with the approved plans and the Rules

The materials used have been made at works approved by the Committee noted by the Surveyors to this Society

The gear has now been dispatched to Dundee for fitting on board.

Attached hereto: Fitting certificate for shafts.

125 HP @ 51/2 £ 31.5.0
1st mly £ 2.0.0
£ 34.5.0

The amount of Entry Fee

Special 1/5 4.1.31 £ 6.5.0

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

3-MAR-1936

When received,

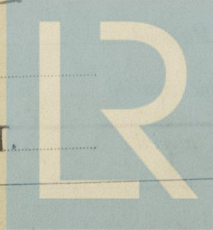
8/5/1936

Geo. Lang.

Engineer Surveyor to Lloyd's Register

Committee's Minute GLASGOW 9 JUN 1936

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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