

REPORT ON ^{AUX!} OIL ENGINE MACHINERY.

No. 13370.

Received at London Office

4 FEB 1936

of writing Report 2nd Feb. 1936 When handed in at Local Office 3rd Feb. 1936 Port of BRISTOL

in Survey held at DURSBLEY Date, First Survey 6th Jan. Last Survey 15th Jan. 1936.
Book. Number of Visits 2.

on the Single } Screw vessel
Twin }
Triple }
Quadruple }

Ashanti

built at Goole By whom built Goole Shipbuilding Co. Yard Nos 312 } When built
313 }

engines made at Dursley By whom made Lister & Co. Engine Nos 314 } When made 1936
381912-3-4-5 }

Boilers made at _____ By whom made _____ Boiler No. _____ When made _____

Indicated Horse Power 14 ✓ Owners _____ Port belonging to _____

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

Use for which vessel is intended _____

ENGINES, &c.—Type of Engines C.E. Type Airless Injection 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 750 LBS Diameter of cylinders 4.5 Length of stroke 4.375 No. of cylinders 2 No. of cranks 2

No. of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 1/16 Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 24" Weight 684 lbs Means of ignition Compression Kind of fuel used Shell Diesel

Crank Shaft, dia. of journals _____ as per Rule _____ as fitted 2.375 Crank pin dia. 2.75 Crank Webs _____ Mid. length breadth 3.5 Thickness parallel to axis _____ M d. length thickness 1.31 shrunk Thickness around eye hole _____

Propeller Shaft, diameter _____ as per Rule _____ as fitted 2.25 Intermediate Shafts, diameter _____ as per Rule _____ as fitted _____ Thrust Shaft, diameter at collars _____ as per Rule _____ as fitted _____

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

Propeller Liners, 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 _____

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

Propeller 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 _____

Propeller 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 _____

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

Propeller, dia. _____ Pitch _____ No. of blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. feet

Method of reversing Engines _____ Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes ✓ Means of lubrication _____

Thickness of cylinder liners .266 Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with conducting material No If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine _____

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

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

Discharge Pumps connected to the Main Bilge Line { No. and Size _____ How driven _____

Discharge Pumps, No. and size _____ Lubricating Oil Pumps, including Spare Pump, No. and size _____

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

Discharge Pumps, No. and size:—In Machinery Spaces _____

Holds, &c. _____

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

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

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 platform 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 all pipes pass through the bunkers _____ How are they protected _____

Do all 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 _____

On a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork _____

Main Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

Auxiliary Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

Small Auxiliary Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

Exhausting Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

Auxiliary Engines crank shafts, diameter _____ as per Rule _____ as fitted _____

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

Are the internal surfaces of the receivers be examined _____ What means are provided for cleaning their inner surfaces _____

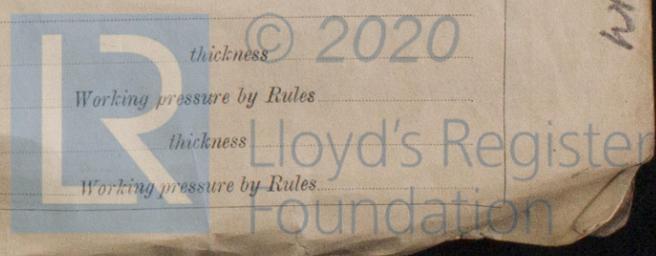
Is there a drain arrangement fitted at the lowest part of each receiver _____

High Pressure Air Receivers, No. _____ Cubic capacity of each _____ Internal diameter _____ thickness _____

Are all receivers seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____

Starting Air Receivers, No. _____ Total cubic capacity _____ Internal diameter _____ thickness _____

Are all receivers seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____



6110-2119

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting 24/10/34 Receivers _____ Separate Tanks _____
(If not, state date of approval)

Donkey Boilers _____ General Pumping Arrangements _____ Oil Fuel Burning Arrangements _____

SPARE GEAR

The foregoing is a correct description,

J.P. R.A. Rickett & Co (Marine Sales Dept) Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Jan. 6. 15.
 { During erection on board vessel - - }
 Total No. of visits 2.

Dates of Examination of principal parts—Cylinders 4/1/36 Covers 6/1/36 Pistons 6/1/36 Rods _____ Connecting rods 4/1/36
 Crank shaft 6/1/36 Flywheel shaft 6/1/36 Thrust shaft _____ Intermediate shafts _____ Tube shaft _____
 Screw shaft _____ Propeller _____ Stern tube _____ Engine seatings _____ Engines holding down bolts _____
 Completion of fitting sea connections _____ Completion of pumping arrangements _____ Engines tried under working conditions 15/1/36
 Crank shaft, Material Steel Identification Mark M 381912-3-4-5 & 388-9-90-91 Flywheel shaft, Material _____ Identification Mark _____
 Thrust shaft, Material _____ Identification Mark _____ Intermediate shafts, Material _____ Identification Marks _____
 Tube shaft, Material _____ Identification Mark _____ Screw shaft, Material _____ 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 _____
 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. (4 CE TYPE AUX. ENGINES))

These engines are stated to be for auxiliary purposes for vessels being built at Gole, Gole Shipbuilding & Eng^{rs} Co. Nos 312-3-4 & 5. They have been dispatched to the Harworth Eng^{rs} Co to be fitted with air compressors & centrifugal pumps.

The engines have been constructed under special survey & tried on the test bed with satisfactory results.

Certificate (if required) 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 ... £	12	: 12	6 th Feb. 1936
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	16	: 22	22/7/1936

John L. Gwynne
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 30 JUN 1936 FRI. 14 AUG 1936 FRI. 16 OCT 1936

Assigned See Vol 26, 46845



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