

REPORT ON OIL ENGINE MACHINERY.

No. 15261

8 DEC 1933

Received at London Office

Survey Report 29. 11. 33 When handed in at Local Office 7. 12. 33. Port of Southampton

Survey held at Yeovil Date, First Survey 4. 10. 33 Last Survey 24. 11. 1933 Number of Visits 4

on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel "ROCK" Tons ^{Gross} 250 _{Net}

Heburn in Tyne By whom built H & W Hawthorne & Co. Ltd. Yard No. 591 When built 1933

made at Yeovil By whom made Pettus Ltd. Engine No. When made 1933

Boilers made at By whom made Boiler No. When made

Horse Power 260 Owners Free Trade Wharf Co. Ltd. Port belonging to London

Horse Power as per Rule 109. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

for which vessel is intended Coasting Atomic

ENGINES, &c. Type of Engines Pettus Atomic Diesel 2 or 4 stroke cycle 2 Single or double acting Single

pressure in cylinders 650 lb Diameter of cylinders 12 1/2 Length of stroke 18 1/4 No. of cylinders 4 No. of cranks 4

cranks, adjacent to the Crank, measured from inner edge to inner edge 19 1/2 Is there a bearing between each crank

Revolutions per minute 275 Flywheel dia. 47 Weight 3780 lb Means of ignition Compression Kind of fuel used Diesel Oil

Shaft, dia. of journals 7 1/2 Crank pin dia. 7 1/2 Crank Webs Mid. length breadth 9 1/2 Thickness parallel to axis

Shaft, diameter 7 1/2 Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars 5 1/2

Shaft, diameter as per Rule Screw Shaft, diameter 5 Is the tube shaft fitted with a continuous liner

Liners, thickness in way of bushes Thickness between bushes 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

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

Oil glands 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 Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia. 66 Pitch 45 No. of blades 4 Material CI whether Moveable Total Developed Surface sq. feet

Reversing Engines Direct 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

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

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

Water pumps worked from the Main Engines, No. 1 Diameter 3 7/8 Stroke 4 Can one be overhauled while the other is at work

Water pumps connected to the Main Bilge Line No. and Size How driven

Water pumps, No. and size 1 @ 4 1/2 x 6 stroke Lubricating Oil Pumps, including Spare Pump, No. and size 2 @ 1 1/2 diam x 1 1/2 stroke

Independent means arranged for circulating water through the Oil Cooler none Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

Water pumps, No. and size:—In Machinery Spaces In Pump Room

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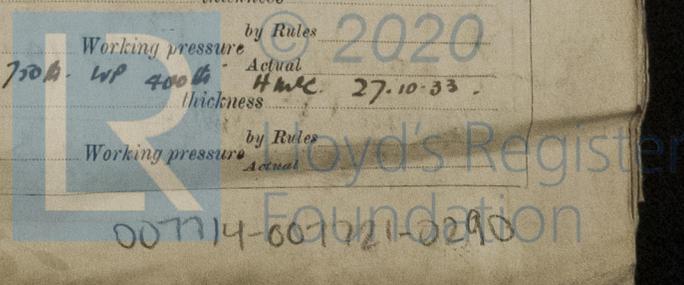
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IS A DONKEY BOILER FITTED?

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 4 10 33 Receivers 26 11 33 Separate Tanks
(If not, state date of approval)
 Donkey Boilers 14 11 33 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

An letter attached.

*See Newcastle Report.
H.B.*

The foregoing is a correct description,

Robinson & P. Peters Ltd Manufacturer.

Dates of Survey while building
 During progress of work in shops - - 11 10 33 13 10 33 23 10 33 24 11 33
 During erection on board vessel - - -
 Total No. of visits 4

Dates of Examination of principal parts—Cylinders 11 10 33 Covers 11 10 33 Pistons 11 10 33 Rods 11 10 33 Connecting rods 11 10 33

Crank shaft 11 10 33 Flywheel shaft Thrust shaft 24 11 33 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
 Crank shaft, Material Oil Steel Identification Mark Lloyds 2144 JFC 14 12 31 Flywheel shaft, Material Oil Steel Identification Mark Lloyds 2197 JFC 18 12 31
 Thrust shaft, Material Oil Steel Identification Mark Lloyds 10870 Intermediate shafts, Material Identification Marks
 Tube shaft, Material Identification Mark Lloyds 24 11 33 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

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.)

This machinery has been constructed under Special Survey according to the Rules and approved plans, & the materials & workmanship are found to be good. It has been tried in the shop under working conditions & found satisfactory.

This machinery has been satisfactorily installed in the vessel, examined under working conditions and found satisfactory. See also Newcastle Report.

*H.B. Forster
Newcastle-on-Tyne.*

11.1.34

The amount of Entry Fee .. £ 3-0-0 : When applied for,
 Special (4s.) ... £ 21-16-0 : 7/12/1933
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ 3-19-10 : 16/1 1934

L.R. Home
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

13 JAN 1934

Assigned

see No. 90909



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Certificate (if required) to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)