

REPORT ON OIL ENGINE MACHINERY.

No. 46030

Received at London Office 20 OCT 1926

of writing Report 12.5 Oct 26 When handed in at Local Office 15.10.26 Port of Glasgow
 in Survey held at Glasgow Date, First Survey 25.8.25 Last Survey 10.10.1926.
 Book. Number of Visits 154
 on the Single } Screw vessels SHROPSHIRE
 Twin }
 Triple }
 at Glasgow. By whom built The Fairfield S.B. & E. Co. Ltd. No. 619 When built 1926.10
 ines made at Glasgow. By whom made The Fairfield S.B. & E. Co. Ltd. Engine No. 619 When made 1926
 key Boilers made at By whom made Boiler No. When made
 ke Horse Power Owners Bibby Bros & Co. Port belonging to Liverpool.
 a. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GENERATOR Type of Engines Three sets, Burmeister & Wain 2 or 4 stroke cycle Single or double acting
ENGINES, &c.
 Maximum pressure in cylinders No. of cylinders Diameter of cylinders No. of cranks Length of stroke
 of bearings, adjacent to the Crank, measured from inner edge to inner edge Is there a bearing between each crank
 lutions per minute Flywheel dia. Weight Means of ignition Kind of fuel used
Crank Shaft, dia. of journals as per Rule as fitted Crank pin dia. Crank Webs Mid. length breadth Mid. length thickness Thickness parallel to axis shrunk Thickness around eye hole
Wheel Shafts, diameter as per Rule as fitted **Intermediate Shafts, diameter** as per Rule as fitted **Thrust Shaft, diameter at collars** as per Rule as fitted
ie Shafts, diameter as per Rule as fitted **Screw Shaft, diameter** as per Rule as fitted Is the tube screw shaft fitted with a continuous liner
ize Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as fitted Is the after end of the liner made watertight in the
 6 **eller boss** If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
 he 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
 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
 of the tube shaft 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
ethod of reversing Engines Is a governor or other arrangement fitted to prevent racing of the engine when disclutched 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
 -conducting material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine
oling Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
lge Pumps fitted to the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
umps connected to the Main Bilge Line { No. and Size
 { How driven
llast Pumps, No. and size. Lubricating Oil Pumps, including Spare Pump, No. and size
 e two independent means arranged for circulating water through the Oil Cooler **Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge**
mps, No. and size:—In Engine and Boiler Room
Holds, &c.
ependent Power Pump Direct Suctions to the Engine Room Bilges, No. and size Are the Bilge Suctions in the Machinery Space
 e all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes
 from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges
 e all **Sea Connections** fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 e 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
 e 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
 hat pipes pass through the bunkers How are they protected
 hat pipes pass through the deep tanks Have they been tested as per Rule
 e all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 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
 nartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from
 a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
ain Air Compressors, No. No. of stages Diameters Stroke Driven by
axiliary Air Compressors, No. No. of stages Diameters Stroke Driven by
mall Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by
avenging Air Pumps, No. Diameter Stroke
ixiliary Engines crank shafts, diameter as per Rule as fitted
R RECEIVERS:— Is each receiver, which can be isolated, fitted with a safety valve as per Rule
 n the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 there a drain arrangement fitted at the lowest part of each receiver
igh Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 amless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
arting Air Receivers, No. Total cubic capacity Internal diameter thickness
 amless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

IS A DONKEY BOILER FITTED? ✓

If so, is a report now forwarded? ✓

HYDRAULIC TESTS:—

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS					
" " COVERS					
" " JACKETS.....					
" PISTON WATER PASSAGES.....					
MAIN COMPRESSORS—1st STAGE.....					
" 2nd "					
" 3rd "					
AIR RECEIVERS—STARTING					
" INJECTION					
AIR PIPES					
FUEL PIPES					
FUEL PUMPS					
SILENCER					
" WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for Shafting 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,

Manufacturer.

Dates of Survey while building
During progress of work in shops--
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 Tube shaft
Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts
Completion of filling 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 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.

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Three Sets of Diesel Generators as per London Report No 90085 have been satisfactorily fitted on board the above Vessel.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ : : 19.
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19.

Committee's Minute

GLASGOW 19 OCT 1926

Assigned Sec accompanying Mach: Report.

M. Lane

Engineer Surveyor to Lloyd's Register of Shipping.



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