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REPORT ON OIL ENGINE MACHINERY.

No. 29855

-5 OCT 1928

Received at London Office
Writing Report 19 When handed in at Local Office 4 OCT. 1928 Port of Lundeland.
Survey held at Lundeland. Date, First Survey 20 Dec. 27 Last Survey 3 Oct 1928.
Number of Visits 54
on the Single Twin Triple Quadruple Screw vessel "PORT ALMA" Tons { Gross 7983
Net 4926
at Newcastle By whom built Laurie Hunter & Wigham Yard No. 134 / When built
made at Lundeland. By whom made Wm. Donald & Sons Ltd. Engine No. 170 When made 1928.
Boilers made at Stockton By whom made Riley Bros. & Co. Boiler No. 5482 When made 1928.
Horse Power 3500 EACH ENGINE. Owners Commonwealth Dominion Line, Port belonging to London.
Horse Power as per Rule 1374 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes.
for which vessel is intended General Trade.

20-22 ENGINES, &c.—Type of Engines Infant Offshore Piston Airless Injection 2 or 4 stroke cycle 2 Single or double acting Single
in pressure in cylinders 40 to 50 Diameter of cylinders 600 Length of stroke 23 3/4 No. of cylinders 4 No. of cranks 4 STATION.
bearings, adjacent to the Crank, measured from inner edge to inner edge 1050 Is there a bearing between each crank YES.
ons per minute 100 Flywheel dia. 7'-8 1/2" Weight 11 tons. Means of ignition TEMP OF COMPRESSION Kind of fuel used CRUDE OIL.
Shaft, dia. of journals as per Rule 423 as fitted 430 Crank pin dia. 475 Crank Webs Mid. length breadth 650 Thickness parallel to axis 260
el Shaft, diameter as per Rule 423 as fitted 430 Intermediate Shafts, diameter as per Rule 14 5/8 Thrust Shaft, diameter at collars as per Rule 430
shaft, diameter as per Rule 423 as fitted 430 Screw Shaft, diameter as per Rule 423 as fitted 430 Is the { tube { shaft fitted with a continuous liner {
21-23 Liners, thickness in way of bushes as per Rule 423 as fitted 430 Thickness between bushes as per rule 423 as fitted 430 Is the after end of the liner made watertight in the
boss Please See Newcastle-on-Tyne Report attached. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
er 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
liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after
tube shaft Length of Bearing in Stern Bush next to and supporting propeller

er, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet
of reversing Engines COMPRESSED AIR. Is a governor or other arrangement fitted to prevent racing of the engine when detached YES. Means of lubrication
Thickness of cylinder liners "REINFORCED" Are the cylinders fitted with safety valves YES. Are the exhaust pipes and silencers water cooled or lagged with
ducting material YES. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

3-5 Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
umps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
connected to the Main Bilge Line { No. and Size
How driven
Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
Independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
No. and size:—In Machinery Spaces
, &c.

2 ident Power Pump Direct Suctions to the Engine Room Bilges, No. and size
he Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces
easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges
ea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
ixed 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
ach 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
es pass through the bunkers How are they protected
es pass through the deep tanks Have they been tested as per Rule

2 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
angement 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
ent to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from
vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

2 e Compressors, No. No. of stages Diameters Stroke Driven by
y Air Compressors, No. No. of stages Diameters Stroke Driven by
xiliary Air Compressors, No. No. of stages Diameters Stroke Driven by
ing Air Pumps, No. 1, ON EACH ENGINE. Diameter 1580 Stroke 1060 Driven by MAIN ENGINE.
y Engines crank shafts, diameter as per Rule
as fitted

2 RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule
of Sh internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
e drain arrangement fitted at the lowest part of each receiver
essure Air Receivers, No. Cubic capacity of each Internal diameter thickness
lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
Air Receivers, No. Total cubic capacity Internal diameter thickness
lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

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