

REPORT ON OIL ENGINE MACHINERY.

No. 11808

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of writing Report 14th Nov. 1945 When handed in at Local Office 14th Nov. 1945 Port of Copenhagen

in Survey held at Copenhagen Date, First Survey 8th Nov. 1945 Last Survey 17th Nov. 1945 Number of Visits 80

Book. on the Single Screw vessel "ALFRED CLEGG" Tons Gross 9137 Net 5688

at Copenhagen By whom built P. Burmeister & Wain Yard No. 650 When built 1940

ines made at Copenhagen By whom made P. Burmeister & Wain Engine No. 2058 When made 1940

Boilers made at Copenhagen By whom made P. Burmeister & Wain Boiler No. 1987/88 When made 1940

ike Horse Power 3650 Owners Maritime Trading Co, Ltd. Port belonging to Panama City

m. Horse Power as per Rule 570 571 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

le for which vessel is intended Ocean going oil carrier.

ENGINES, &c. — Type of Engines Vert. diesel, crosshead type, solid injection 2 or 4 stroke cycle. Single or double acting Single. Minimum pressure in cylinders 49 kg/cm² Diameter of cylinders 740 mm Length of stroke 596/1500 No. of cylinders 7 No. of cranks 7

Indicated Pressure 8.55 kg/cm² Diameter of cylinders 740 mm Length of stroke 596/1500 No. of cylinders 7 No. of cranks 7

of bearings, adjacent to the crank, measured from inner edge to inner edge 1004 mm Is there a bearing between each crank Yes

Revolutions per minute 105 Flywheel dia. 2136 mm Weight 1920 kg Means of ignition compression Kind of fuel used waste oil FP: 150°F

dia. of journals as per Rule 501 mm as fitted 525 mm Crank pin dia. 525 mm Crank webs Mid. length breadth 1000 mm Mid. length thickness 310 mm Thickness parallel to axis 310 mm

Wheel Shaft, diameter as per Rule 170 mm C. hole 235 mm C. hole 235 mm Thrust Shaft, diameter at collars as fitted 372 mm

Screw Shaft, diameter as per Rule 389 mm as fitted 500 mm Is the tube screw shaft fitted with a continuous liner Yes

ize Liners, thickness in way of bushes as per Rule 19.5 mm as fitted 24 mm Thickness between bushes as per Rule 14.6 mm as fitted 18 mm Is the after end of the liner made watertight in the

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

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 Yes

If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of tube shaft Yes

propeller, dia. 5000 mm Pitch 3879 mm No. of blades 4 Material plain steel whether moveable No Total developed surface 8.03 m²

method of reversing Engines diesel reversible Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced

Thickness of cylinder liners 53.5 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled

lagged with non-conducting 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 Yes

Cooling Water Pumps, No. 1 off 160t. steam driven fuel oil pump Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Large Pumps worked from the Main Engines, No. 2 Diameter 165 mm Stroke 230 mm Can one be overhauled while the other is at work Yes

pumps connected to the Main Bilge Line No. and size 2 off 23 t. each, each bilge & sanitary 2 off 30 t. each, bilge & sanitary 1 off 160 t. bilge & sanitary

How driven chain driven from main eng. steam driven steam driven

the cooling water led to the bilges No If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping arrangements

Ballast Pumps, No. and size 1 off 160t. steam driven Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1 off 160t. steam driven fuel oil pump

Are there two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both main bilge pumps and auxiliary

Large pumps, No. and size: In machinery spaces 2 off 5" 1 off 3 1/2" and 2 off 3 1/2" from engine room In pump room N-7-1 off 2" N-8-1 off 4" N-8-1 off 4"

holds, &c. FUEL OIL DB: 2 off 3" Bilge oil: 1 off 3" DEEP TANK FORW. 2 off 4" DEEP TANK AFT. 2 off 3 1/2"

Independent Power Pump Direct Suctions to the engine room bilges, No. and size 1 off 7", 2 off 3 1/2"

Are all the bilge suction pipes in holds and tunnel well fitted with strum-boxes Yes Are the bilge suction in the machinery spaces led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

Are all Sea Connections fitted direct on the skin of the Ship Yes Are they fitted with valves or cocks. Valves, except O/S blow off. Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates Yes

Are the overboard discharges above or below the deep water line. Above

Are they each fitted with a discharge valve always accessible on the plating of the vessel. Yes Are the blow off cocks fitted with a spigot and brass covering plate. Yes

What pipes pass through the bunkers. None How are they protected. ✓

What pipes pass through the deep tanks. None 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. Yes

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. Yes Is the shaft tunnel watertight. ✓ Is it fitted with a watertight door. ✓ worked from. ✓

If 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. 2 off No. of stages 2 diameters 8 1/4" - 3 1/2" stroke 7" driven by steam engine

Auxiliary Air Compressors, No. ✓ No. of stages ✓ diameters ✓ stroke ✓ driven by ✓

Small Auxiliary Air Compressors, No. ✓ No. of stages ✓ diameters ✓ stroke ✓ driven by ✓

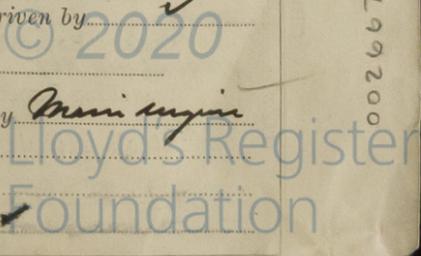
What provision is made for first charging the air receivers. The steam driven air compressors.

OVERCHARGING BLOWER Scavenging Air Pumps, No. 1 off - 170 m³/min. diameter rotary stroke ✓ driven by steam engine

Auxiliary Engines crank shafts, diameter as per Rule ✓ No. ✓ Position ✓

Have the auxiliary engines been constructed under special survey. ✓ Is a report sent herewith. ✓

002667-002673-0053 1/2



AIR RECEIVERS:—Have they been made under survey Yes State No. of report or certificate ✓
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
 Can the internal surfaces of the receivers be examined and cleaned Yes Is a drain fitted at the lowest part of each receiver Yes
Injection Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓
 Seamless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure ✓
Starting Air Receivers, No. 107 Total cubic capacity 22 m³ Internal diameter 100/126/182/1278 mm thickness 24 mm
 Seamless, lap welded or riveted longitudinal joint ✓ Material SM steel Range of tensile strength ENDS: 47.4/— Working pressure 24.2
 (Shell: 47.3/—)
IS A DONKEY BOILER FITTED Yes If so, is a report now forwarded Yes
 Is the donkey boiler intended to be used for domestic purposes only Yes
PLANS. Are approved plans forwarded herewith for shafting Yes Receivers Yes Separate fuel tanks Yes
 Donkey boilers Yes General pumping arrangements Yes Pumping arrangements in machinery space Yes
 Oil fuel burning arrangements Yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied One propeller shaft.

**AKTIESELSKABET
 BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI**

A. Hummel

The foregoing is a correct description, ✓
 Manufacturer.

Dates of Survey while building	During progress of work in shops -	1939: 2/10, 13/10, 14/10, 22/10, 24/10, 26/10, 27/10, 28/10, 29/10, 30/10, 31/10, 1/11, 2/11, 3/11, 4/11, 5/11, 6/11, 7/11, 8/11, 9/11, 10/11, 11/11, 12/11, 13/11, 14/11, 15/11, 16/11, 17/11, 18/11, 19/11, 20/11, 21/11, 22/11, 23/11, 24/11, 25/11, 26/11, 27/11, 28/11, 29/11, 30/11, 1/12, 2/12, 3/12, 4/12, 5/12, 6/12, 7/12, 8/12, 9/12, 10/12, 11/12, 12/12, 13/12, 14/12, 15/12, 16/12, 17/12, 18/12, 19/12, 20/12, 21/12, 22/12, 23/12, 24/12, 25/12, 26/12, 27/12, 28/12, 29/12, 30/12, 31/12, 1/1, 2/1, 3/1, 4/1, 5/1, 6/1, 7/1, 8/1, 9/1, 10/1, 11/1, 12/1, 13/1, 14/1, 15/1, 16/1, 17/1, 18/1, 19/1, 20/1, 21/1, 22/1, 23/1, 24/1, 25/1, 26/1, 27/1, 28/1, 29/1, 30/1, 31/1, 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 10/2, 11/2, 12/2, 13/2, 14/2, 15/2, 16/2, 17/2, 18/2, 19/2, 20/2, 21/2, 22/2, 23/2, 24/2, 25/2, 26/2, 27/2, 28/2, 29/2, 30/2, 31/2, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 8/3, 9/3, 10/3, 11/3, 12/3, 13/3, 14/3, 15/3, 16/3, 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