

REPORT ON OIL ENGINE MACHINERY.

No. 22176

Received at London Office 29 JAN 1937

Date of writing Report 15 JAN. 1937 When handed in at Local Office

Port of HAMBURG

No. in Survey held at AUGSBURG & HAMBURG Date, First Survey 16th JULY Last Survey 29th DEC. 1936
Reg. Book. HAMBURG. Number of Visits 51.

Single
on the Twin
Triple
Screw vessel

"HOEGH SILVERLIGHT."

Tons } Gross 5197
Net 3186

Built at HAMBURG By whom built DEUTSCHEWERFT A.G. Yard No. 120 When built 1936
Engines made at AUGSBURG By whom made N. A. T. Engine No. 691190 When made 1936.
Donkey Boilers made at HAMBURG By whom made DEUTSCHEWERFT A.G. Boiler No. 638 When made 1936.
Brake Horse Power 3500 Owners { SKIBS AIS: NORUEGA,
ASTREA, ARUBA, ABACO. Port belonging to OSLO.
Nom. Horse Power as per Rule 973 Is Refrigerating Machinery fitted for cargo purposes YES Is Electric Light fitted YES.
Trade for which vessel is intended PACIFIC 235/8 435/16

OIL ENGINES, &c.—Type of Engines 252V 60/110 2 or 4 stroke cycle 2 Single or double acting double
Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 300^{mm} Length of stroke 1100^{mm} No. of cylinders 5 No. of cranks 5
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 885^{mm} Is there a bearing between each crank yes
Revolutions per minute 120 Flywheel dia. 2300^{mm} Weight 9000 kgr. Means of ignition Direct priming Kind of fuel used Diesel Oil.
Crank Shaft, dia. of journals as per Rule 420^{mm} as fitted 420^{mm} Crank pin dia. 420^{mm} Crank Webs Mid. length breadth 710^{mm} Thickness parallel to axis 265^{mm}
Flywheel Shaft, diameter as per Rule 420^{mm} as fitted 420^{mm} Intermediate Shafts, diameter as per Rule 317^{mm} as fitted 317^{mm} Thrust Shaft, diameter at collars as per Rule 380^{mm} as fitted 380^{mm}
Tube Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 368^{mm} as fitted 368^{mm} Is the { tube screw } shaft fitted with a continuous liner { yes
Bronze Liners, thickness in way of bushes as per Rule as fitted 17^{mm} thickness between bushes as per rule 17^{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
If 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 end of the tube shaft
Propeller, dia. 4894^{mm} Pitch 3778^{mm} No. of blades 4 Material bronze whether Moveable, no Total Developed Surface 8.45 sq. m.
Method of reversing Engines direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced
Thickness of cylinder liners 40^{mm} Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or 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 funnel
Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
What special arrangements are made for dealing with cooling water if discharged into bilges

Bilge Pumps worked from the Main Engines, No. 2 Diameter 150 mm Stroke 90 mm Can one be overhauled while the other is at work
Pumps connected to the Main Bilge Line No. and Size 2 - 1 of 150 mm/h - 1 of 90 mm - rotary type, self priming
How driven electrically electrically.
Ballast Pumps, No. and size 1 - rotary - 150 mm/h. Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 2 - 1 of 90 mm/h - 1 of 38 mm/h
Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, No. and size:—In Machinery Spaces 2 of 51^{mm} 1 of 125^{mm} - 5 of 90^{mm} 1 of 70^{mm} (suction) 1 of 71^{mm} (pipe funnel) Pump Room
In Holds, 4 of 70^{mm} - 4 of 90^{mm} - 2 of 51^{mm} (from oil gutter ways) 2 of 90^{mm} 4 of 71^{mm} inside diam.
Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 3 - 1 of 125^{mm} - 2 of 90^{mm}
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes yes Are the Bilge Suctions 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 and cocks
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 & below
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 How are they protected
What pipes pass through the deep tanks pipe funnel Have they been tested as per Rule yes
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 yes Is it fitted with a watertight door yes worked from deck (alleyway).
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 No. of stages 2 Diameters 250/100^{mm} Stroke 220^{mm} Driven by gear drive from
Auxiliary Air Compressors, No. 2 No. of stages 2 Diameters 110/45^{mm} Stroke 70^{mm} Driven by this Diesel engine
Small Auxiliary Air Compressors, No. 1 No. of stages 2 Diameters 110/45^{mm} Stroke 70^{mm} Driven by hand steam
Scavenging Air Pumps, No. 1 (tandem) Diameter 1280^{mm} Stroke 720^{mm} Driven by main engine
Auxiliary Engines crank shafts, diameter as per Rule 130^{mm} as fitted 130^{mm} No. 3 Position Engine Room Port side. yes

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes Is a drain fitted at the lowest part of each receiver yes
Can the internal surfaces of the receivers be examined and cleaned yes
High Pressure Air Receivers, No. 3 Cubic capacity of each Internal diameter thickness
Seamless, lap welded or riveted longitudinal joint Material 2 x 10 lb wt. Range of tensile strength Working pressure by Rules Actual 2021
Starting Air Receivers, No. 3 (2+1) Total cubic capacity 125^{cu} ft. Internal diameter 1750^{mm} - 298^{mm} thickness 23.5^{mm} - 10^{mm}
Seamless, lap welded or riveted longitudinal joint riveted Material S.M. Steel Range of tensile strength 44-50 kgr Working pressure by Rules Actual 24 kg - 30 kg
Foundation

