

REPORT ON OIL ENGINE MACHINERY.

No. 7428.

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GOTHENBURG

Writing Report 1st March 1929 When handed in at Local Office

Date, First Survey 7th Aug 1928 Last Survey 21st Feb 1929

in Survey held at GOTHENBURG

Number of Visits 66

Book, on the Single Twin Triple Screw vessel "HERBJÖRN"

Tons Gross 8038 Net 4767

at GOTHENBURG By whom built AB. GÖTAVERKEN

Yard No. 415 When built 1929-2

ines made at GOTHENBURG By whom made AB. GÖTAVERKEN

Engine No. 1795 When made 1929

key Boilers made at GOTHENBURG By whom made A.B. LINDHOLMEN-MOTALA

Boiler No. 2413 When made 1929

ke Horse Power

Owners SKIBSAKTIESELSKAPET HERBJÖRN Port belonging to MOSS.

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted YES

de for which vessel is intended GENERAL

ENGINES, &c.—Type of Engines Two Diesel Oil Engines 2 or 4 stroke cycle 4 Single or double acting Single

imum pressure in cylinders 35 kg/cm² Diameter of cylinders 550 mm Length of stroke 1000 mm No. of cylinders 14 No. of cranks 14

of bearings, adjacent to the Crank, measured from inner edge to inner edge 730 mm Is there a bearing between each crank Yes

tutions per minute 155 Flywheel dia. None Weight Means of ignition Diesel System Kind of fuel used Diesel oil

ck Shaft, dia. of journals as per Rule 350 mm Crank pin dia. 350 mm Crank Webs Mid. length breadth shrunk Thickness parallel to axis 197-213 mm

heel Shaft, diameter as per Rule None Intermediate Shafts, diameter as fitted 255 mm Thrust Shaft, diameter at collars as fitted 300 mm

e Shaft, diameter as per Rule None Screw Shaft, diameter as fitted 288 mm Is the shaft fitted with a continuous liner Yes

ize Liners, thickness in way of bushes as per Rule 16.4 mm Thickness between bushes as fitted 16.0 mm Is the after end of the liner made watertight in the

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

e 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

o 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

No If so, state type Length of Bearing in Stern Bush next to and supporting propeller 1345 mm

ellers, dia. 3504 mm Pitch 95/14 mm No. of blades 4 Material Bronze whether Moveable No Total Developed Surface 24.2 sq. feet

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

eed Thickness of cylinder liners 38 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

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

ing Water Pumps, No. Two 175 tons pumps Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

e Pumps worked from the Main Engines, No. 2 Diameter 150 mm Stroke 175 mm Can one be overhauled while the other is at work Yes

ps connected to the Main Bilge Line No. and size 2 direct driven pumps 99 tons each, 1 plunger bilge pump 99 tons, the ballast pump 100 tons

ast Pumps, No. and size One 60 tons in each pump room Lubricating Oil Pumps, including Spare Pump, No. and size Two 70 tons rotary pumps

two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

ps, No. and size:—In Machinery Spaces Four 3 1/2" and four 2 1/2" [Two 2" to cofferdams in way of engine room]

Folds, &c. None [Two 2 1/2" in hold connected to forward bilge & ballast pump]

ependent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 3 1/2" from bilge & ballast pump & One 6" from ballast pump

all the Bilge Suction pipes in Holds and Tunnel fitted with strum-boxes Yes Are the Bilge Suctions in the Machinery Spaces

from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Both

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

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

at pipes pass through the bunks No bunks How are they protected

at pipes pass through the deep tanks Main cargo lines only Have they been tested as per Rule Yes

if not g all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

he 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

partment to another Yes Is the Shaft Tunnel watertight No tunnel Is it fitted with a watertight door worked from

wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Salin Air Compressors, No. 2 No. of stages 3 Diameters 134, 540 & 600 Stroke 400 Driven by Main engines

Water Cail Auxiliary Air Compressors, No. 1 No. of stages 3 Diameters 65, 350 & 400 Stroke 140 & 170 Driven by Electric motor

all Auxiliary Air Compressors, No. 1 No. of stages 2 Diameters 34 & 106 Stroke 80 Driven by Steam engine

avenging Air Pumps, No. 46 Diameter Stroke Driven by

iliary Engines crank shafts, diameter as per Rule 200 mm (See Stockholm reports attached)

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes The injection air receiver by

the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces means of caustic soda & steam

there a drain arrangement fitted at the lowest part of each receiver Yes

gh Pressure Air Receivers, No. 4 Cubic capacity of each 2 of 175 & 2 of 310 Internal diameter 358 & 450 Thickness 21 & 25.5 mm

unless, lap welded or riveted longitudinal joint welded Material L.M. Steel Range of tensile strength 37.7-38.7 Working pressure by Rules 7.3 kg/cm²

urting Air Receivers, No. 2 Total cubic capacity 2 x 135 = 270 Internal diameter 1800 & 1850 Thickness 25 & 25.5 mm

unless, lap welded or riveted longitudinal joint Riveted Material L.M. Steel Range of tensile strength 44.3-49.9 Working pressure by Rules 25.6 kg/cm²

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