

REPORT ON OIL ENGINE MACHINERY.

No. 7961.

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No. in Survey held at Copenhagen & Odense Date, First Survey 10/5 1928 Last Survey 27/4 1929

Reg. Book. 9097 on the Single Twin Triple Quadruple Screw vessel "ABRAHAM LINCOLN" Tons { Gross 5783.53 Net 3603.41

Built at Odense By whom built Odense Maskarbejdsselskab No. 32 When built 1928-9

Engines made at Copenhagen By whom made W. Bunnmeister & Wain Engine No. 1516 When made 1928-9

Donkey Boilers made at Copenhagen By whom made W. Bunnmeister & Wain Boiler No. 1822 When made 1928-9

Brake Horse Power ca. 4200 Owners W. Bunnmeister (Fret Olsen & Co.) Port belonging to Oslo

Nom. Horse Power as per Rule 951 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

Trade for which vessel is intended Ocean trade, General cargo and fruit

IL ENGINES, &c.—Type of Engines Vertical Diesel engines, crosshead type 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 35 kg/cm² Diameter of cylinders 630 mm Length of stroke 1100 mm No. of cylinders 2 x 8 = 16 No. of cranks 2 x 8 = 16

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 892 mm Is there a bearing between each crank yes

Revolutions per minute 135 Crank pin dia. 1902 mm Weight 1100 kg Means of ignition compression Kind of fuel used crude oil

Crank Shaft, dia. of journals as per Rule 396.6 mm Crank pin dia. 398 mm Crank Webs Mid. length breadth 1764 mm Thickness parallel to axis 266 mm

Intermediate Shafts, diameter as per Rule 11.10" Thrust Shaft, diameter at collars as per Rule 11.81"

Screw Shaft, diameter as per Rule 12.4" Is the tube shaft fitted with a continuous liner yes

Bronze Liners, thickness in way of bushes as per Rule 0.66" Thickness between bushes as per rule 0.56" 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 yes

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

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 the tube

propeller, dia. 12'-6" Pitch 11'-6" No. of blades 3 Material Bronze whether Moveable No Total Developed Surface 37 sq. feet

Method of reversing Engines direct reversible Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication

Thickness of cylinder liners 46 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with

insulating 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 yes

Cooling Water Pumps, No. 2 off centrifugal, 200 t 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 160 mm Stroke 214 mm Can one be overhauled while the other is at work yes

Pumps connected to the Main Bilge Line { No. and Size 2 off 160 mm dia x 214 mm str. / 1 off 20 t / 1 off 150 t How driven from main engine / electrically / electrically

Ballast Pumps, No. and size 1 off rotating, 150 t Lubricating Oil Pumps, including Spare Pump, No. and size 2 off, 100 wheel, 90 t

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 5 off 3", 1 off 6" TUNNEL WELL: 1 off 3"

Holds, &c. 1, 2, 3 HOLDS: 2 off 3" in each hold, No 4 HOLD: 3 off 3", No 5 HOLD: 1 off 3"

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 off 6", 1 off 3"

Are all the Bilge Suction pipes in Holds and Tunnel Well 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

Are all Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks Valves, except O.B. blow off cock

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 yes

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 yes

What pipes pass through the deep tanks None 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

apartment to another yes Is the Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from upper deck

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

MAIN AIR COMPRESSORS, No. 2 No. of stages 3 Diameters 750-675-150 Stroke 360 mm Driven by main engines

Auxiliary Air Compressors, No. 3 No. of stages 3 Diameters 318-285-78 Stroke 220 mm Driven by auxiliary motors

Small Auxiliary Air Compressors, No. 1 No. of stages 2 Diameters 106-34 Stroke 80 mm Driven by steam engine

Scavenging Air Pumps, No. 1 Diameter 161.8 mm Stroke 170 mm Driven by yes

Auxiliary Engines crank shafts, diameter as per Rule 161.8 mm as fitted 170 mm

R RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes man hole

Are the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces starting air receiver fitted with arrangement made for cleaning injection air bottles by steam

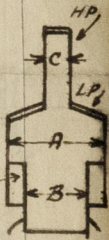
Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. 2 { 2 WORKING AIR, 2 SPARE, 3 AUXILIARY } Cubic capacity of each 225 litres Internal diameter 358 mm thickness 25 mm

Seamless, lap welded or riveted longitudinal joint yes Material S.M. steel Range of tensile strength 37.8 kg Working pressure by Rules 73.3 kg/cm²

Starting Air Receivers, No. 2 Total cubic capacity 2 x 225 = 450 cb' Internal diameter 6'-0" x 6'-15/16" thickness HELL 1" AND 1 1/2" 3/32", END 1 3/16"

Seamless, lap welded or riveted longitudinal joint 3 1/2% riveted Material S.M. steel Range of tensile strength JHELL 28 kg, ENDS 26 kg, RIVETS 26 kg Working pressure by Rules 25.0 kg/cm²



of Copenhagen.

II

Continuation of Report No. 7961 dated 3/5 1929.

on the

"ABRAHAM LINCOLN."

22 HP shunt wound electromotor for the electrical steering gear.

6 " " " " " transformer for wireless telegraphy.

30 " " " " " working a 20 kw generator giving current at 110 volts pressure for the electric light installation.

A. H. Schiffer
 SURVEYOR TO LLOYD'S
 REGISTER OF SHIPPING

THE FOREGOING IS A CORRECT DESCRIPTION.

PR. ODENSE STAALSKIBSVÆRFT
 VED A. P. MØLLER

John Anders Jensen



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 Foundation

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