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REPORT ON OIL ENGINE MACHINERY.

No. 8009.
24 APR 1930
YKANO 4500

of writing Report 16th June 1929. When handed in at Local Office 4-4-1930 Port of Copenhagen.
in Survey held at Copenhagen Date, First Survey 6th Nov. 1927. Last Survey 6th June 1929.
Book. Number of Visits 53
YKA " " " 73

on the Single Screw vessel M.V. "CHICHIBU MARU"
at Yokohama By whom built Messrs. Yokohama Dock Co. Ltd. Yard No. 170 When built 1930
ines made at Copenhagen By whom made Messrs. Akt. Burmeister & Wain's Engine No. 1418 When made 1929
key Boilers made at Yokohama By whom made Messrs. Skibbyggeri Designated N.Y.K.1 Boiler No. 140 When made 1930
ke Horse Power 16,500 Owners Messrs. Nippon Yusen Kaisha Port belonging to Tokio
n. Horse Power as per Rule 3380 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes.

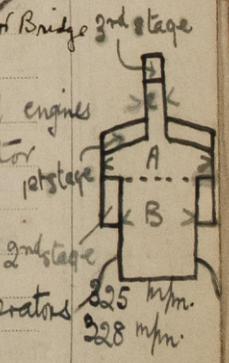
de for which vessel is intended
ENGINES, &c. Type of Engines Vertical Diesel Engine (Crosshead type) 2 or 4 stroke cycle 4 Single or double acting Double
imum pressure in cylinders 35 kg/cm² Diameter of cylinders 840 mm = 33 1/16" Length of stroke 1500 mm = 59 1/16" No. of cylinders 2 x 8 No. of cranks 2 x 8
of bearings, adjacent to the Crank measured from inner edge to inner edge 1190 mm. Is there a bearing between each crank. Yes
olutions per minute 115 TURNING wheel dia. 2122 mm. Weight 2570 kg. Means of ignition air compression Kind of fuel used above 150° F
nk Shaft, dia. of journals as per Rule 570 mm. Crank pin dia. 570 mm. Crank Webs Mid. length breadth 1130 mm. Thickness parallel to axis 355 mm.
as fitted 570 mm. M. d. length thickness 335 mm. Thickness around eye hole 272 mm.
wheel Shaft, diameter as per Rule 440 mm. Thrust Shaft, diameter at collars as fitted 406 mm.
as fitted 470 mm. as fitted 496 mm.
e Shaft, diameter as per Rule 510 mm. Is the screw shaft fitted with a continuous liner? yes
as fitted 510 mm. as per rule 23.28 mm. Is the after end of the liner made watertight in the
ize Liners, thickness in way of bushes as fitted 26 mm. Thickness between bushes as fitted 26 mm & 27 mm. 19.

eller 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
he 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 yes Is an approved Oil Gland or other appliance fitted at the after end of the tube
Length of Bearing in Stern Bush next to and supporting propeller 8'-11 1/2"
eller, dia. 18'-0" Pitch 18'-6" No. of blades 4 Material Bronze whether Moveable yes Total Developed Surface 102 sq. feet
od of reversing Engines Direct reversible Is a governor or other arrangement fitted to prevent racing of the engine when disengaged yes Means of lubrication
lubrication Thickness of cylinder liners 56 mm. Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with
conducting material or 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
ing Water Pumps, No. 4 off for salt water - 300 tons each 3 Centrifugal 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 off for fresh water - 250 " "

ps connected to the Main Bilge Line No. and Size 3. 1-9" x 11" = 150 T/H. 2 Centrifugal 140 Tons/hr (Emergency) & 30 T/H.
How driven motors
ast Pumps, No. and size 1 - 10" x 11" = 250 T/H. Lubricating Oil Pumps, including Spare Pump, No. and size 4 off, rotary pumps - 250 tons each
wo 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 2-5", 9-3 1/2", 1-3", 8-2 1/2", 6-2"
olds, &c. 3-3 1/2", 10-3"
pendent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2-12", 2-8", 4-6", 2-3 1/2"
all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes yes Are the Bilge Suctions in the Machinery Spaces
rom easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges yes
ill Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks. Both
hey 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
hey 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
hat pipes pass through the bunkers yes How are they protected yes
hat pipes pass through the deep tanks yes Have they been tested as per Rule yes

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
partment to another yes Is the Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from top of Eng Room of Bridge 3rd stage
a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
ain Air Compressors, No. 3 off x 2 No. of stages 3 Diameters 8 1/2 x 7 1/2 x 17 1/2 Stroke 400 mm. Driven by Aux Diesel oil engines
uxiliary Air Compressors, No. 1 off No. of stages 3 Diameters 20 x 17 1/2 x 45 Stroke 180 mm. Driven by Electro motor
mall Auxiliary Air Compressors, No. 1 No. of stages 1 Diameters 17 1/2 Stroke 17 1/2 Driven by yes
eaving Air Pumps, No. 1 Diameter 17 1/2 Stroke 17 1/2 Driven by yes
uxiliary Engines crank shafts, diameter as per Rule of engines working the main air compressors 328 mm. of engines working the main generators 225 mm.
as fitted 380 mm. yes and fusible plugs 228 mm.

R RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes
in the internal surfaces of the receivers to be examined yes What means are provided for cleaning their inner surfaces
there a drain arrangement fitted at the lowest part of each receiver yes
igh Pressure Air Receivers, No. 14 off Cubic capacity of each 2 off - 550 litres - - - - 450 mm. - - - - 20 mm.
2 off - 350 " - - - - Internal diameter thickness
eamless, lap welded or riveted longitudinal joint Seamless Material S.M. Steel Range of tensile strength 44.6-49.4 950 mm. Working pressure by Rules 91.6 kg/cm²
arting Air Receivers, No. 4 Total cubic capacity 800 cuft each Internal diameter 6'-0" thickness 1 1/2" Working pressure by Rules 34.0 lbs.
eamless, lap welded or riveted longitudinal joint Riveted Material Steel Range of tensile strength 26-30 Working pressure by Rules 34.0 lbs.



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