

# REPORT ON OIL ENGINE MACHINERY.

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of writing Report 19 When handed in at Local Office 19 Port of Kobe  
 Survey held at Nagasaki Date, First Survey 8th June 1951 Last Survey 28th August 1952  
 Number of Visits 27  
 look. Single ☒ on the Twin ☒ Triple ☒ Quadruple ☒  
 "AWATA MARU"  
 Tons { Gross 7,601.48  
 Net 4,320.50  
 By whom built Nagasaki Works Mitsubishi Zosen K.K. Yard No. 1428 When built 1952.8 mo.  
 By whom made Nagasaki Works Mitsubishi Zosen K.K. Engine No. 24-246 When made 1952.5 mo.  
 By whom made Nagasaki Works Mitsubishi Zosen K.K. Boiler No. 1368 When made 1952.5 mo.  
 Owners Nippon Yusen Kaisha Port belonging to Tokyo  
 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes  
 for which vessel is intended Ocean going

**ENGINES, &c.** — Type of Engines 6 MS 72/125 2 or 4 stroke cycle 2 Single or double acting Single  
 Maximum pressure in cylinders 45 Kgs/cm<sup>2</sup> Diameter of cylinders 720 mm Length of stroke 1,250 mm No. of cylinders 6 per eng. No. of cranks 2 per eng.  
 Indicated Pressure 5.77 Kgs/cm<sup>2</sup> Ahead Firing Order in Cylinders 6-2-4-3-5-1 Span of bearings, adjacent to the crank, measured  
 inner edge to inner edge 960 mm Is there a bearing between each crank Yes Revolutions per minute 134  
 Crank pin dia 2500 mm Weight 4,480 Kgs Moment of inertia of flywheel (lbs. in<sup>2</sup> or Kg. cm<sup>2</sup>) 17,000 Kg. m<sup>2</sup> Means of ignition Compression Kind of fuel used Heavy oil  
 Crank pin dia 500 mm Crank webs 315 mm Mid. length breadth 830 mm Thickness parallel to axis 315 mm  
 Thrust Shaft, diameter at collars 500 mm as fitted 500 mm  
 Intermediate Shaft, diameter 338 mm as fitted 338 mm  
 Screw Shaft, diameter 370 mm as fitted 370 mm  
 Is the {tube} shaft fitted with a continuous liner { Yes  
 Is the after end of the liner made watertight in the  
 Length of bearing in Stern Bush next to and supporting propeller 1470 mm  
 Total developed surface 71.4 sq. feet  
 Kind of damper, if fitted  
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of  
 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled  
 If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned  
 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes  
 Can one be overhauled while the other is at work  
 How driven Electric motor drive  
 If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping  
 In machinery spaces 4-90 mm dia In pump room  
 Are the bilge suction pipes in holds and tunnel well fitted with strum-boxes Yes Are the bilge suction pipes in the machinery spaces led from easily  
 Are the overboard discharges above or below the deep water line Below  
 Are the blow off cocks fitted with a spigot and brass covering plate Yes  
 How are they protected  
 Have they been tested as per Rule Yes  
 Is the shaft tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper deck level  
 No. of stages 3 diameters 105.36/305.360 mm stroke 220 mm driven by Dynamo engine  
 No. of stages 1 diameters 92/42 mm stroke 70 mm driven by Manual  
 Small compressor described above  
 diameter 600 mm stroke 1,250 mm driven by Main engine  
 Position Engine room, flat  
 Is a report sent herewith Yes

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