

REPORT ON OIL ENGINE MACHINERY.

No. 1191.

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of writing Report *4th April 1933* When handed in at Local Office *5th April 1933* Port of *Malmö*
 in Survey held at *Malmö* Date, First Survey *24th Febr. 1931* Last Survey *31st March 1933*
 Book. *217* on the *Single* Screw vessel *"PROCYON"* Tons { Gross *8721*
Triple Net *4954*
Quadruple
 at *Malmö* By whom built *Hockmors M. V. Aktiel.* Yard No. *171* When built *1933*
 ines made at *Malmö* By whom made *Hockmors M. V. Aktiel.* Engine No. *75 e 76* When made *1933*
 keu Boilers made at *Malmö* By whom made *Hockmors M. V. Aktiel.* Boiler No. *909/10* When made *1933*
 rse Power *2 x 2200 = 4400* Owners *Trelleborgs Angfartygs Nya A.B.* Port belonging to *Trelleborg*
 se Power as per Rule *861865* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*
 which vessel is intended *✓*

GINES, &c.—Type of Engines *G.8 Vu 60/110* 2 or 4 stroke cycle *4* Single or double acting *Single*
 ssure in cylinders *45 kg/cm²* Diameter of cylinders *23 5/8" (600 mm)* Length of stroke *43 5/16" (1100 mm)* No. of cylinders *2 x 8 = 16* No. of cranks *2 x 8 = 16*
 gs, adjacent to the Crank, measured from inner edge to inner edge *max. 970 mm* Is there a bearing between each crank *Yes*
 er minute *145* Flywheel dia. *2093 mm* Weight *5900 kg* Means of ignition *Diesel Syst.* Kind of fuel used *Heavy Oil. Solid Injection*
 t. dia. of journals *as per Rule 383 mm* Crank pin dia. *385 mm* Mid. length breadth *540 mm* Thickness parallel to axis *✓ 1 crank coupling.*
as fitted 400 mm Crank Webs *Mid. length thickness 220 mm* Thickness around eyehole *✓ of 7:4 cycles.*
 haft, diameter *as per Rule 383 mm* Intermediate Shafts, diameter *as per Rule 263 mm* Thrust Shaft, diameter at collars *as per Rule 276.2 mm*
as fitted 400-280 mm *as fitted 267 mm* *as fitted 280 mm*
 a, diameter *as per Rule* Screw Shaft, diameter *as per Rule 290 mm* Is the *tube* shaft fitted with a continuous liner *Yes*
as fitted *as fitted 295 mm* *as fitted*
 ers, thickness in way of bushes *as per Rule 16.5 mm* Thickness between bushes *as per rule 12.4 mm* Is the after end of the liner made watertight in the
as fitted 16.5 x 17.5 mm *as fitted 13 mm (12K)*
Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner *✓*
 es 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 *✓*
 are fitted, is the shaft lapped or protected between the liners *✓* Is an approved Oil Gland or other appliance fitted at the after
 be shaft *✓* Length of Bearing in Stern Bush next to and supporting propeller *1275 mm*
 lia. *3840 mm* Pitch *3120 mm* No. of blades *3* Material *Brass* whether Moveable *No* Total Developed Surface *100 sq. feet*
 reversing Engines *MAN System* Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication
 Thickness of cylinder liners *42.5 mm TOP 40 mm BOTTOM* Are the cylinders fitted with safety valves *Yes* Are the exhaust pipes and silencers water cooled or lagged with
 g 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 *led to a funnel.*
 ater Pumps, No. *2 each of 220 m³/hour* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Yes*
 os worked from the Main Engines, No. *✓* IN THE MOTOR ROOM Stroke *✓* Can one be overhauled while the other is at work *✓*
 No. and Size *3. Imp 6" x 9" each 20 T/H. Rotary of 100 T/H.* IN MAIN PUMP ROOM IN PUMP ROOM FWD.
 How driven *Electric motors* *Steam driven* *Steam driven*
 ps, No. and size *1 rotary of 100 T/H.* Lubricating Oil Pumps, including Spare Pump, No. and size *2 each of 80 m³/hour*
 ndent means arranged for circulating water through the Oil CoolerS. *Yes* Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
 nd size:—In Machinery Spaces *2-3 1/2" 1-4" in the after cofferdam 3-3 1/2" in main pump room 1-3 1/2" in pump room fwd.*
2-3 1/2" in dry cargo hold fwd. 1-3 1/2" in the forward cofferdam
 at Power Pump Direct Suctions to the Engine Room Bilges, No. and size *1-5"*
 Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes *✓* Are the Bilge Suctions in the Machinery Spaces
 ly accessible mud-boxes, *placed above the level of the working floor*, with straight tail pipes to the bilges *Yes. Special covers for access.*
 Connections fitted direct on the skin of the ship *Yes* Are they fitted with Valves or Cocks *Both*
 sufficiently high on the ship's side to be seen without lifting the platform plates *Yes, or by lifting* Are the Overboard Discharges above or below the deep water line *Above*
 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*
 ass through the bunkers *✓* How are they protected *✓*
 ass through the deep tanks *Injection pipe from after cofferdam* Have they been tested as per Rule *Yes*
 s, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 ement 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
 to another *Yes* Is the Shaft Tunnel watertight *No tunnel* Is it fitted with a watertight door *✓* worked from *✓*
 ssel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork *✓*
 ompressors, No. *None* No. of stages *✓* Diameters *✓* Stroke *✓* Driven by *✓*
 Air Compressors, No. *2* No. of stages *2* Diameters *300-90 mm* Stroke *220 mm* Driven by *Aux. engine*
 liary Air Compressors, No. *1* No. of stages *2* Size: *1.2 m³/hour* Stroke *✓* Driven by *hand or elec. motor*
 g Air Pumps, No. *✓* Diameter *✓* Stroke *✓* Driven by *✓*
ENGINES crank shafts, diameter *as per Rule 139 mm* *as fitted 155 mm* **MARKS ON SHAFTS.**
RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule *Yes*
 nal surfaces of the receivers be examined *Yes* What means are provided for cleaning their inner surfaces *small rec. by means of steam and soda.*
 train arrangement fitted at the lowest part of each receiver *Yes*
 sure Air Receivers, No. *None* SMALL START. AIR REC. Cubic capacity of each *200 l.* Internal diameter *418 mm* thickness *16 mm*
 welded or riveted longitudinal joint *Lap welded* Material *Steel* Range of tensile strength *37.1 kg/mm²* Working pressure by Rules *42.6 kg/cm²*
 ng Air Receivers, No. *2* Total cubic capacity *2 x 15 = 30 m³* Internal diameter *1850 mm* thickness *25.5 mm*
 ss, lap welded or riveted longitudinal joint *Riveted* Material *Steel* Range of tensile strength *48.3-49.4* Working pressure by Rules *27.95 kg/cm²*

