

No. 12555
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OIL ENGINES, &c.—Type of Engines *Prohander 12/1402 14163* 2 or 4 stroke cycle *2* Single or double acting *single*

Maximum pressure in cylinders _____ No. of cylinders *8* *2 x 4* No. of cranks *2 x 4* Diameter of cylinders *510 m/m*

Length of stroke *750 m/m* Revolutions per minute *160* Means of ignition *hot bulb* Kind of fuel used *Colon oil*

Is there a bearing between each crank _____ Span of bearings (Page 92, Section 2, par. 7 of Rules) _____

Distance between centres of main bearings _____ Is a flywheel fitted *Yes* Diameter of crank shaft journals *as per Rule*
as fitted

Diameter of crank pins _____ Breadth of crank webs *as per Rule*
as fitted Thickness of ditto *as per Rule*
as fitted

Diameter of flywheel shaft *as per Rule*
as fitted Diameter of tunnel shaft *as per Rule*
as fitted *210 m/m* Diameter of thrust shaft *as per Rule*
as fitted

Diameter of screw shaft *as per Rule*
as fitted *255 m/m* Is the screw shaft fitted with a continuous liner the whole length of the stern tube *no liner*

Is the after end of the liner made watertight in the propeller boss _____ If the liner is in more than one length are the joints burned _____

If 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 _____

If two liners are fitted, is the shaft lapped or protected between the liners _____ If without liners, is the shaft arranged to run in oil *Yes*

Type of outer gland fitted to stern tube *Cedervall's pat* Length of stern bush *1100 m/m* Diameter of propeller *2600 m/m*

Pitch of propeller *2200 m/m* No. of blades *4* state whether moveable *no* Total surface *2244* square feet

Method of reversing *Direct* Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Thickness of cylinder liners _____

Are the cylinders fitted with safety valves _____ Means of lubrication *Forced* Are the exhaust pipes and silencers water cooled or lagged with non-conducting 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 *in funnel*
through sluice

No. of cooling water pumps *2 x 2* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Yes*

No. of bilge pumps fitted to the main engines *2 x 2* Diameter of ditto *160 m/m* Stroke *76 m/m*

Can one be overhauled while the other is at work *Yes* No. of auxiliary pumps connected to the main bilge lines *1* How driven *Electric motor*

Sizes of pumps *3 pumps 160 x 200* No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room *4 x 2 3/4 inch 1/2"*
and in holds, etc. *I 2 x 2 3/4" II 2 x 2 3/4" 1 x 3"* No. of ballast pumps *1* How driven *Electric motor* Sizes of pumps *3 x 160 x 200*

Is the ballast pump fitted with a direct suction from the engine room bilges *Yes* State size *3 1/2"* Is a separate auxiliary pump suction fitted in Engine Room and size *Ballast pump 160*

Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine Room always accessible *Yes*

Are the sluices on Engine Room bulkheads always accessible _____ Are all connections with the sea direct on the skin of the ship *Yes*

Are they valves or cocks *both* Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates *Yes*

Are the discharge pipes above or below the deep water line *above* Are they each fitted with a discharge valve always accessible on the plating of the vessel *Yes*

Are all pipes, cocks, valves and pumps in connection with the machinery accessible at all times *Yes* Are the bilge suction pipes, cocks and valves arranged so as to prevent any communication between the sea and the bilges *Yes*

Is the screw shaft tunnel watertight *Yes* Is it fitted with a watertight door *Yes*

worked from *Electric motor* If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork *Shrub*

No. of main air compressors *2 x 1* No. of stages *2* Diameters _____ Stroke _____ Driven by *main engine*

No. of auxiliary air compressors _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

No. of small auxiliary air compressors *1* No. of stages *2* Diameters _____ Stroke _____ Driven by *Electric and Prohander*

No. of scavenging air pumps *Prohander type* Diameter _____ Stroke _____ Driven by *main engine*

Diameter of auxiliary Diesel Engine crank shafts *as per Rule*
as fitted Are the air compressors and their coolers made so as to be easy of access *Yes*

AIR RECEIVERS:—No of high pressure air receivers 2 ✓ Internal diameter ✓ Cubic capacity of each ✓
 material Seamless ✓ Seamless, lap welded or riveted longitudinal joint ✓ Range of tensile strength ✓
 thickness ✓ working pressure by Rules ✓ No. of starting air receivers 2 ✓ Internal diameter ✓
 Total cubic capacity ✓ Material ✓ Seamless, lap welded or riveted longitudinal joint ✓
 Range of tensile strength ✓ thickness ✓ Working pressure by rules ✓ Is each receiver, which can be isolated.
 fitted with a safety valve as per Rule ✓ Can the internal surfaces of the receivers be examined ✓ What means are provided for cleaning their
 inner surfaces ✓ Is there a drain arrangement fitted at the lowest part of each receiver ✓

If so, is a report now forwarded?

Rpt.

Date of _____

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