

Blackland 26/6/30

LIST OF CLASSIFICATION REQUIREMENTS
(as per Rules)

- GENERAL : Steel Vessels built in accordance with the Society's Rules and Regulations retain their class so long as they are found upon careful annual and periodical survey to be in a fit and efficient condition for the safe conveyance of dry and perishable cargo.
- MACHINERY : To be constructed under the Society's Special Survey, and subject to survey as prescribed in the Rules. Complete periodical survey every four years and at each intervening period of two years a modified survey of the machinery to be held.
- FUEL TANKS : Service, Settling and other Tanks : Where such tanks do not form part of the structure of the vessel the scantlings and arrangements are to be submitted for approval. Air and sounding pipes to be fitted.
- STRUCTURE : Additional bulkheads, particulars of extra cargo space, ventilators, engine seatings, etc. plans to be submitted for approval.
- AIR RECEIVERS : Compressed Air Receivers for starting air to be of sufficient capacity to permit not less than twelve consecutive startings of the engines without replenishment.
- STEEL : Steel not exceeding 30 tons tensile. *if welded.* (Boiler Quality).
- : To have hydraulic test applied.
 $1\frac{1}{2}$ times working pressure plus 50 lbs.
Pipes subjected to 1000 lbs. working pressure to twice the working pressure.
- SAFETY VALVES : Safety Valves and Drain Valves to be fitted. Receivers exceeding 6" diameter to be fitted with manhole door for internal examination and cleaning.
- ALTERNATIVE ARRANGEMENTS : Alternative arrangements for direct suction from engine room bilge, main engine or ballast pump.
- VENTILATION : Special attention is to be given to the ventilation of the Engine Room.
- GENERALLY : The Rules relating to Internal Combustion Heavy Oil Engines are the same as those relating to Steam Engines, so far as regards the testing of materials used in their construction and the fitting of sea connections, discharge pipes, shafting, stern tubes and propellers. It is recommended that all pipes conveying fuel oil be made of steel and iron.



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GEAR : Section 6. The articles mentioned in the following list will be required to be carried, viz :-

FOR MAIN ENGINES.

- 1 cylinder cover of each design used, complete with all valves, valve casings, springs and other fittings and, in addition, one complete set of valves for one cylinder, with their springs and other fittings.
- Fuel needle valves for half the number of cylinders of each engine.
- 1 piston complete, with all piston rings, studs and nuts and, in addition, one set of piston rings for one piston.
- Telescopic cooling pipes for one piston, where these are used.
- 1 set of skew wheels for the cam shaft drive of one engine, where these are used.
- 1 set of studs and nuts for one cylinder cover of each design used.
- 2 crosshead bearing bolts and nuts, or one gudgeon pin where trunk pistons are used.
- 2 crank pin bearing bolts and nuts.
- 2 main bearing bolts and nuts.
- 1 set of bolts for one crank shaft coupling.
- 1 set of bolts for one intermediate shaft coupling.

FOR MAIN ENGINE AIR COMPRESSORS AND PUMPS.

- 1 set of piston rings for one piston of each size used in the air compressor.
- 1 half set of suction and delivery valves for each size used in the air compressor.
- Not less than 10 per cent. of suction and delivery valves for the scavenge air pump where lift valves are used.
- 1 impeller, impeller shaft and bearings where scavenge blowers are used. Where more than one scavenge blower is fitted, and one of these is additional to the required capacity of blower or blowers, under full working conditions, no spare parts need be supplied provided the additional blower is arranged to be easily substituted for the working blowers.
- 1 additional fuel pump or all working parts for one fuel pump.
- 1 additional water circulating pump to be fitted and connected ready for use.

FOR EACH SIZE OF AUXILIARY DIESEL ENGINE.

- 1 complete set of valves for one cylinder, with their springs and other fittings.
- Fuel needle valves for half the number of cylinders.
- 1 set of piston rings for one piston.

For each size of Auxiliary Diesel Engine (continued)

- 1 set of studs and nuts for one cylinder cover.
- 2 crosshead bearing bolts and nuts, or one gudgeon pin where trunk pistons are used.
- 2 crank pin bearing bolts and nuts.
- 2 main bearing bolts and nuts.
- 1 set of piston rings for one piston of each size used in the air compressor.
- 1 half set of suction and delivery valves for each size used in the air compressor.
- 1 additional fuel pump or all working parts for one fuel pump.

FOR AUXILIARY PUMPS.

- 1 suction and one delivery valve for the daily fuel supply pump.
- 1 suction and one delivery valve for the bilge pumps.

GENERAL.

- A quantity of assorted nuts and bolts.
- A length of pipe of each size used for the fuel delivery and injection air pipes to the main and auxiliary power cylinders, and the air delivery from the main and auxiliary compressors to the receivers, with unions and flanges suitable for each.



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