

REC/RE.

R. A. S.

3rd July 1933

Messrs. Charles Hill & Sons, Ltd.,
Aldion Dockyard,
Cumberland Road.
Bristol.

750.

Signed Contract Agreement dated
Letter 23rd June 1933.

NR.3235.

Engine 8th September. Stern gear and
Fittings 24th Aug. at Messrs. Hill's Yard
Subject to heavy Penalties.

To:- Messrs. Hill's Yard,
Aldion Dockyard.
Bristol.

120 SHP MARINE ENGINE AND EQUIPMENT

DESCRIPTION:-

NOTE.

RE - 120 SHP. FOUR CYLINDER, DIRECTLY REVER INHA
PATTERN ATOMIC MICHALL MARINE ENGINE. Running
at a speed of 450 R.P.M. and capable of
developing 10% overload for periods of one
hour. The engine bedplate will be extended
to carry thrust shaft and Michall thrust
block and will be complete with water cooled
exhaust manifold, integral air compressor,
circulating water and bilge pumps, inter-
connected, forced feed lubrication, quick
acting governor with central hand control
for speed and reverse connected to wheel
house.

DAILY SERVICE TANK.

RE - Marine pattern daily service tank of 25
Gallons capacity for fixing to the bulkhead
and complete with piping leading therefrom
to the engine.

REMARKS.

In addition to the water cooled exhaust
manifold bolted to the engine cylinders we
include a galvanised water washed secondary
silencer for fixing in the engine room,
together with interconnecting piping leading
from the manifold to the secondary silencer
and from the secondary silencer to the

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funnel. We also include copper water piping leading from the circulating system in to the secondary silencer.

PUMPING.

We include the supply of the necessary levers, quadrant and interconnecting mechanism for deck control and for a master pressure gauge and master air valve in the deck house, together with interconnecting copper piping. We also include the provision of a speed and direction indicator in the deck house, instead of on the engine itself.

AIR AND MANOEUVRING.

We include the necessary steel air receivers having a total capacity of 11 cub.ft. for the storage of compressed air for starting and manoeuvring purposes. The receivers will be complete with draw-off plug, pressure indicators and stop valves; we also include the provision of the necessary interconnecting piping between the receivers the engine and the integral air compressor on main engine and the auxiliary engine driven compressor mentioned on Pg. 781.

- PUMP.

Set of Sterngear to Lloyd's Requirements comprising:-
 Steel propeller shaft 8'3" long x 3½" dia.
 cast iron sterntube 4'6" long between flanges, with a rubber aft bearing in bronze sleeve, with a lignum vitae neck ring forward and gland, and a connection for water lubrication from circulating water discharge overboard, also 3-bladed or alternatively 4-bladed cast iron propeller fitted with cap nut. Dimensions in accordance with your drawing No. 87074.

VALVE AND FITTINGS.

Set of fittings, comprising:-

Sea valve and inboard strainer, outside wood strainer, interconnecting copper piping (section) to the circulating water pump and from the engine overboard by way of a boatside fitting which is also included. We also include a sea valve and inboard strainer together with copper interconnecting piping to the bilge pumpant from the oil pump to a deck fitting to be supplied by you. We also include one bilge strainer and piping to the bilge pump and from thence

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overboard by way of a boatside fitting which is also included.

ROTARY HAND PUMP.

We include the supply of one 2" Semi-Rotary Hand Pump for auxiliary bilge requirements, the necessary interconnecting piping being for your supply.

ENGINE SURVEY AND SPARES.

We include the survey by Lloyds of the Main Engine at these works, and the stern-gear at the works of our Suppliers, and we include the following spare parts which have been agreed to by Lloyds for the restricted operation of your vessel between Bristol, Newport, and Cardiff, the spares to be included are as follows:-

- 4 - Piston Rings.
- 1 - Set Crankcase air plates for one cylinder.
- 1 - Complete set of joints.
- 1 - Set of Springs.
- 1 - Complete Atomiser.
- 3 - Fuel pump safety diaphragms.
- 1 - Set of suction and delivery valves for integral air compressor.
- 1 - Piston ring for integral air compressor.
- 1 - Set of valves for circulating water and bilge pump.
- 1 - Compressed air distributor valve.
- 1 - Length pipe (longest fuel pump to atomiser)

The above spares are in lieu of the spares supplied as standard with this engine.

We include the services of one of our skilled Engineers to check the alignment of the engine after you have completed the installation in the vessel, and we also include our Engineer's attendance during the running of normal trials.

NOTE: Please note the Auxiliary set mentioned on order 2.0. 751 will work in conjunction with the above Main Engine.

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