

No. 530 - T.S.M.V. "ISIPINGO"

LIST OF SPARE GEAR.



MAIN ENGINES:-

- 1 Propeller shaft complete with nut.
- 1 Propeller blade of bronze to each hand.
- ✓ 1 Set of intermediate shaft coupling bolts.
- ✓ 1 Cylinder cover complete with all valves, seats, springs, &c.
- ✓ 6 Bosch fuel valves (including springs, needles and spray nozzles).
- 6 Starting air valve spindles with nuts.
- 12 Fuel valve springs.
- 12 Starting air valve springs.
- 16 Cylinder cover studs and nuts (for one cylinder).
- 1 cylinder liner.
- 1 Cylinder liner oil scraper.
- ✓ 1 Piston Crown.)
- ✓ 1 Piston Skirt.) Assembled.
- ✓ 1 Piston Rod.)
- ✓ 7 Sets of piston rings (at 6 per piston = 42 rings).
- 1 Set piston crown studs and nuts (for one piston).
- ✓ 4 Piston cooling running pipes with fittings.
- ✓ 4 Piston cooling stand pipes.
- ✓ 4 Piston cooling injection pipes with nozzles.
- ✓ 1 Bottom end bearing with liners, bolts and nuts.
- ✓ 1 Top end bearing with liners, bolts and nuts.
- ✓ 2 Main crank shaft bearing bolts and nuts.
- 1 Complete set of pads (ahead and astern) for Michell Thrust block, for one engine.
- ✓ 1 Complete train of gearwheels for cam shaft drive of one engine.
- ✓ 1 Set of coupling bolts and nuts for main crank shaft.
- 1 Set of cams and rollers complete with pins and nuts for fuel pump and starting air timing valve, ahead and astern, for one cylinder.
- 6 Cylinder relief valves complete with all details.
- 4 Indicator valves complete with all details.

SPARE GEAR (CONTINUED)

MAIN ENGINES (CTD). -

- 6 Fuel pump plungers and springs.
- 6 Springs for fuel pump plunger drive.
- 6 Fuel pump plunger guide bushes.
- ✓ 6 Fuel pump suction valves with springs and seats.
- 6 Fuel pump delivery valves with springs and seats.
- 6 Fuel pump relief valves with springs and seats.
- 1 Set scavenge air trunk valves (complete nests for one cylinder.)
- ✓ 10 Per cent of Special Bolts and Nuts.
- 4 Lengths H.P. fuel piping with cone unions for fitting direct between fuel pumps and valves.
- 4 Lengths of air piping 18'0" long of each size, fitted up to and including 48 x 60 m/m piping, with cone unions and flanges to suit each length.
- 6 Crosshead lubricating running pipes with fittings.
- 6 Crosshead lubricating stand pipes.

SCAVENGE AIR PUMP ON ENGINE:-

- 2 Piston rings.
- 1 Top end bearing complete with liners, bolts and nuts.
- 1 Bottom end bearing complete with liners, bolts and nuts.
- 4 Nests of valves complete with valve discs, plungers and springs, i.e. 2 standing nests (one suction and one delivery), 2 Hanging nests (one suction and one delivery).
- 50 Valve discs of each size.
- 50 Valve plungers.
- 50 Valve springs.

AUXILIARY ENGINES (RUSTON & HORNSBY):-

- 1 Cylinder Liner.
- 1 Cylinder cover.
- ✓ 3 Fuel valves complete.
- ✓ 3 Fuel Valve needles and guides.
- ✓ 1 Safety valve complete.



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0181 2/3

SPARE GEAR (CONTINUED)

AUXILIARY ENGINES (RUSTON & HORNSBY), CTD. -

- ✓ 1 Starting valve complete.
- ✓ 1 Set cylinder cover studs and nuts.
- ✓ 1 Half set of piston rings for one engine.
- ✓ 2 Gudgeon pins and brasses complete.
- ✓ 1 Pair bottom end bolts and nuts.
- ✓ 1 Pair main bearing bolts and nuts.
- 2 Pair bottom end brasses.
- ✓ 1 Set of working parts for fuel pumps.
- 1 Length of chain for cam shaft drive.
- 1 Length of chain for lub. oil and circulating pump drive.

AUXILIARY AIR COMPRESSORS (ELECTRIC DRIVEN):-

- 1 Suction valve complete for each stage.
- 1 Discharge valve complete for each stage.
- 1 Set of piston rings for each stage.
- 1 Pair (2 halves) crosshead bushes and bolts.
- 1 Pair (2 halves) crankpin bushes and bolts.
- 1 Set of plate valves and springs.

AUXILIARY PUMPS, PIPES, TANKS, ETC:-

- 1 Suction and 1 delivery valve for the daily fuel supply tank.
- 1 Set of suction and delivery valves for each size of bilge pump where used, and also small spares etc.

A supply of piping for the high pressure fuel and air system.

BOILER:-

- 2 Clacks for feed check valves.
- 5 Per cent of Tubes.
- 2 Safety valve springs.
- 6 Gauge glasses and rings.
- 6 Sets man and mudhole joints.



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0187 3/3