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M.S. "T J I S A D A N E"

SPARE PARTS.

All spare parts must, before being placed on board, be wholly finished and ready for use.

MAIN ENGINE.

- 2 cylinder covers complete with cooling water branches,
- 4 cylinder liners complete with oil scraper,
- 4 working pistons upper parts, complete with piston rings,
- 2 lower parts and water drain complete,
- 112 piston rings for 1 engine complete,
- 2 piston rods complete,
- 100 loose valves
- 2 sets of 5 valves in drain piping
- 1 suction valve, upper,
- 1 " " lower,
- 1 delivery " upper,
- 1 " " lower
- 2 starting valves compl. with valves and springs,
- 8 fuel valves compl. with valves and springs,
- 8 fuel valve spindles,
- 8 loose bottom pieces for fuel valves,
- 1 lever for fuel valves,
- 1 pre-starting valve house complete,
- 2 fuel valve houses complete,
- 8 pulverisers complete,
- 2 starting cams,
- 4 fuel cams,
- 2 pins for do advance
- 2 pins for do reverse,
- 4 rollers,
- 2 camshaft bearing halves,
- 2 sets of drosshead brasses complete,
- 4 crossheadbolts.

} with valves



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002970-002977-0015 1/3

13
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- 2 sets of crankpin brasses complete,
- 8 crankpinbolts,
- 2 bolts for main bearings,
- 1 set of bolts for connecting rod scavenging pump,
- 1 set of bolts for connecting rod compressor,
- 2 bolts for main bearings compressor and scavenging pump,
- 2 sets of main bearing halves for working cylinders,
- 2 main bearing halves for compressor and scavenging pump,
- 2 thrust bearing halves for vert. shaft,
- 2 " " " " thrustblock,
- 4 crosshead shoes,
- 1 pair of gear wheels for camshaft,
- 1 set of coupling bolts for crankshaft,
- 1 pair of gear wheels for crankshaft of each engine,
- 10 piston rings HP. compressor,
- 10 piston rings IP. compressor,
- 10 piston rings HP. compressor,
- 1 set of stuffing box rings for piston rods compressor,
- 2 seats, valves and springs for LP. complete.
- 2 " " " " " IP. "
- 2 " " " " " HP. "
- 1 set of crankpin and crosshead brasses for compressor complete,
- 1 " " " " " " " " scavenging pump complete,
- 1 piston with rings for startingmachine complete,
- 1 slide valve chest with liner and valve, for starting machine,
- 1 set of oil scraper rings for 1 engine,
- 1 set of fuel pump suction valves with springs complete,
- 1 "X" " " " delivery " " " " "
- 8 delivery plungers with bushes complete,
- 1 fuel non-return valve complete,
- 1 injection air non-return valve complete,
- 1 Bosch oil lubricator, complete.
- 2 pressure gauges, 0.130 kg/cm².
- 1 " " " 0.130 "
- 1 " " " 0.40 "
- 1 " " " 0.10 "
- 2 " " " 0.5 "



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0015 3/3

cylinder cover bolts for 1 cylinder
10% of the principal bolts and studs,
1 set of packing material for main engine,
1 set of helical springs for main engine,
ball bearing 1 of each type,

INJECTION PIPING.-

25 M. steel pipe,
15 flanges,
10 copper cone connections.

FUEL PIPING.-

20 M. steel pipe,
20 copper cone connections.
Crosshead for fuel pump complete with rods etc.
2 valves and spindles (35 mm) for injection air bottle.
2 valves and spindles (45 mm)

F. A. Bennett



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0015 3/3