

SPARE PARTS FOR MAIN MOTOR

Piece	Part Name
1	Crankshaft
10	Coupling Bolts with nuts for crankshaft
10	Bolts for slide bar
2	Telescope pipe
3 Set	Packing ring for telescope pipe
6	" " " "
24	Wiper ring with spring for stuffing of Telescope pipe
2	Bolts for thrust bearing
4	Complete crosshead bearing
4	Bearing halves for crosshead bearing
	Crosshead bearing bolts with nuts
	Complete crankpin bearing
6	Bearing halves for crankpin bearing
6	Crankpin bearing bolts with nuts
4	Crosshead shoe, complete
2	Pipes for piston cooling right and left
	White metal pieces for crosshead shoe
	Bronze wearing plates for guide bars
1	Piston rod
4	Compression adjusting plate
2	Pipes for piston cooling
4	Complete piston with trunk without piston rod
	Piston head
	Inner water fitting for piston
	Piston trunk
63	Piston rings
40	Studs for piston
6	Bolts with nuts for piston
6	Main bearing shells
	Main bearing cap
4	Main bearing studs
	Thrust bearing shells
8	Elastic ring for thrust bearing St.B.
8	Elastic ring for thrust bearing B-B
10	Thrust shaft coupling bolts with nuts
1	Complete cylinder head with valves and flange rings
4	Cylinder head without valves
4	Cylinder liner
16	Cylinder head studs with nuts
5	Rings for stripping off lubricating oil from piston
2	Chamber ring
2	Guide crosshead for fuel pump
6	Plunger for fuel pump
6	Bushing for Plunger of the fuel pump
6	Complete suction valve for the fuel pump
6	Complete discharge valve for the fuel pump
	Discharge valve only for fuel pump
	Connecting rod for fuel pump, complete
	Suction valve for fuel pump
4	Complete fuel valve
4	Atomizer nut for fuel valve
16	Atomizer for fuel valve
4	Fuel valve needle
4	Pulverizer for fuel valve
24	Metaform packing rings for fuel valve needle
1	Complete starting valve
1	Spindle for starting valve
8	Piston rings for starting valve

Pieces.	Part Name.
2	Complete suction valve H.P.
	Valve seat for H.P.
4	Valve rings H.P.
10	Breaking plate for blast air pump
20	Breaking plate for head of starting bottle
7	Complete valves for scavenging pump discharge and suction valve
6	Valve plates for scavenging pump
4	Piston rings for scavenging pump
3	Wiper rings with spring for scav. pump
1	Tube bundle for air cooler L.P.
1	" " " " " M.P.
1	" " " " " H.P.
1	" " " " " Lub. oil
	Tube for air cooler
20	" " " " " Lub. oil cooler
9	Pipe for fuel oil system
	" " " " " starting air
	" " " " " blast
6	Pipe for H.P. cooler
	" " " " " M.P.
2	Crosshead lub. oil pump
1	Cylinder lub. oil pump
2	Lower valve for lubricating oil pump
2	Upper valve for " " "
1	Shaft for lubricating pump
2	Tap " " " "
4	Spur Gears for lubricating pump
6	Bearing bushes for lubricating pump
2	Lower valve for fuel oil lift pump
2	Upper " " " " " " "
2	Non-return valve for blast air system
2	" " " " " fuel oil
2	Complete valve fittings for head of blast air bottle
	Complete valve for head of starting air bottle
	Starting air bottle valve spindle with disc.
	Blast air bottle valve spindle with disc.
	Injection air pipes, complete
	Fuel injection pipe complete
1	Complete inset fittings for fuel oil
	Complete inset fittings for lubricating oil
	Disc valve for fuel oil system
20	Breaking plate for starting air pipe
5	Piston rings for reversing cylinder
8	Wire gauze strainer for lub. oil discharge filter
	" " " " " without bottom for lub. oil discharge filter
8	Linen filter cloth for fuel oil discharge strainer
	Towelling - Filter cloth for lub. oil cleaning strainer
	Linen-filter cloth for lub. oil cleaning strainer
3	Pressure gauge for H.P., M.P. & L.P.
4	Thermometer for Lub. oil
	" " " " " cooling water
	Springs at list
	Jointing rings at list
	Screws & bolts not already listed
	Flanges & jointing fittings
	Special wrenches & tools
10	Conical plugs for tightening air cooler tubes
20	" " " " " " "
1	Spring for indicator gear
2	Spring for fuel valve
2	" " " " " pulverizer
1	" " " " " fuel valve lever
2	" " " " " for starting valve
2	" " " " " for safety valve

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SPARE PARTS FOR MAIN MOTOR

(Type 30/45)

Piece.	Part Name
2	Joint ring for L.P. valve on compressor
4	Connecting rod discharge and suction valve for
4	Bearing for fuel pumps
4	Bearing for valves on fuel pump with bolts
2	Bolts with nuts and washers for connecting rod bearing
2	Piston, complete fuel valve
13	Copper packing
30	Washers for piston
12	Packings for washers
10	Piston rings
36	Piston rings for stripping of oil
4	Coupling bolts for crank shaft
17	Main brace, upper and lower braces
12	Main bearing braces
4	Bolts with controlled nuts for main bearings
10	Lower for working cylinder
6	Cylinder covers complete with valves
4	Exhaust valve complete
12	Exhaust for exhaust valve
4	Valve seats for exhaust valve
4	Seats for exhaust valve
5	Valve springs for exhaust valve
8	Admission valve complete
7	Exhaust for admission valve
6	Valve seats for admission valve (seats)
11	Seats for admission valve
6	Fuel valve, complete
2	Fuel nozzles
4	Spring for fuel valve pump
4	Admission
4	Exhaust plates with nuts
4	Packings rings out wrought iron
4	Starting valve complete
3	Spindles for starting valve and regulator
12	Spring for starting valve
13	Safety valve complete with valve shaft
1	Cones for safety valve
2	Spring for safety valve
4	Rollers for valve levers
4	Bolts for valve levers
2	Fuel cam with bolts
2	Bearing head and bearing shells of to be used for regulating shaft.
2	Screw wheels for crank shaft
2	" " " governor shaft
2	" " " cam shaft
2	" " " of to iron
2	" " " center governing shaft
Several	Bushes with piston to starting system
	Governor springs
3	Plunger for fuel pump
3	Bushes for fuel pump
3	Delivery valve for fuel pump
3	Suction valve for fuel pump
	Delivery valve springs
	Exhaust
	Crankshaft with bolts for fuel pump
3	Rollers for fuel pump levers
3	Bolts for fuel pump levers
2	Bearings for connecting rod upper for compressor
2	Bearings for connecting rod lower " "
2	Bolts with nuts for connecting rod bearing
1	Compressor piston complete
1	Height delivery liner
15	Piston rings, stage 1