

Built at

Amsterdam

By whom built

The Nederland S.B. Co.

Yard No.

203

When

SULZER

LIST OF SPARE PARTS FOR

SINGLE SCREW CARGOSHIPS OF THE N.V. Stoomvaart

Maatschappij NEDERLAND, Amsterdam.

For Main Engine 8882 :

- 1 crankshaft half, (for 5 ships)
- 16 coupling bolts for crankshaft,
- 4 bolts for main bearing,
- 22 cylinder cover studs,
- 1 cylinder cover without valves,
- 1 complete scavenging air valve,
- 2 complete combined starting and fuel valves with advance starting valve and safety valve,
- 4 complete fuel needles,
- 4 pulverizers,
- 2 big end bearing bolts,
- 2 top end bearing bolts,
- 1 working piston complete with rod and cooling tube,
- 40 working piston rings,
- 2 oil scraper rings,
- 10 piston rings 1st stage
- 10 dto. 2nd "
- 12 dto. 3rd "
- 1 toothed wheel on crankshaft,
- 1 intermediate wheel
- 2 conical wheels
- 1 gear wheel of bronze
- 1 gear wheel of steel,
- 8 delivery plungers for fuel pump,
- 8 delivery valve for dto.
- 2 suction valves for dto.
- 4 valves 105 mm for I.P. stage
- 8 " 75 mm " " "
- 4 " 46 mm " " "

No. 3076. - IX. 1929. . 50,000.

Scavenging Air Pumps, No.

Tandem double acting

Diameter

1860 mm.

Stroke

960 mm.



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- 12 valve rings 135 mm for L.P. stage
- 12 dto. 105 mm " " "
- 12 dto. 75 mm " " "
- 12 dto. 46 mm " " "
- 1 suction valve for H.P. stage
- 1 delivery valve for dto.
- 1 set of piping for H.P. air and fuel
- 10% of principle bolts and studs
- 2 working cylinder liners
- 1 main bearing for working cylinder
- 1 dto. for air compressor
- 1 inwardly springy piston rings
- 3 oil scraper rings
- 1 starting valve spindle
- 1 torsion shaft for fuel valve
- 1 lever for dto.
- 2 thrust bearing for torsion shaft
- 1 valve for advance valve
- 4 packing rings for starting valve
- 2 upper bearings for connecting rod of working cylinder
- 1 lower connecting rod bearing for air compressor
- 1 upper dto.
- 1 crosshead pin with 4 bolts
- 2 complete sliding shoes
- 2 working piston heads with bolts
- 8 guide bushes for piston cooling
- 4 fuel valve cams,
- 2 starting valve cams,
- 6 roller pins
- 6 cam rollers/1 L.P. suction valve cone
- 1 L.P. delivery valve cone,
- 1 I.P. suction valve cone,
- 1 I.P. delivery valve cone,
- 1 suction valve for H.P. stage
- 1 delivery valve for H.P. stage

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- 1 non-return valve to injection air piping,
- 1 set metallic packing rings for piston rod,
- 1 inwardly springy piston ring for dto.
- 1 Bosch lubricator,
- 1 dto. TPC8
- 1 dto. TPC10
- 2 non-return valves for injection air piping
- 2 dto. for fuel piping
- 8 running pipes for piston cooling
- 1 thrust ring for thrust bearing
- 2 pressure gauges 120 At.
- 1 dto. 40 At.
- 1 dto. 50 At.
- 1 dto. 30 At.
- 1 dto. 12 At.
- 1 dto. 8 At.
- 1 dto. 5 At.
- 1 dto. 2 At.
- 1 dto. 1 At.
- 1 dto. 0,5 At.
- 1 dto. 20 At.
- 1 set packing rings
- 2 connecting rod big end bearings for working cylinder
- 4 covers for torsion shaft
- 4 rings for dto.
- 4 insertion pieces for dto.
- 8 safety valve for working cylinder,
- 2 dto. for H.P. compressor
- 1 thrust ring to thrust bearing for vertical shaft,
- 2 upper bearings } for vertical shaft
- 2 lower bearings }
- 1 upper bearing " " "
- 1 center bearing
- 1 fit bearing for horizontal shaft
- 1 L.P. cooler nest
- 1 M.P. cooler nest

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- 4 drain valves
- 16 H.P. lubricators,
- 2 H.P. cooler nests
- 32 pulverizer plates
- 18 flame plates
- 2 stand pipes
- 2 leakage water tubes
- 2 each running pipes
- 8 injection nozzles
- 2 stand pipes for crosshead lubrication
- 2 stand pipes for dto.

For scavenge air pump :-

- 1 main bearing
- 1 connecting rod big end bearing
- 1 connecting rod top end bearing,
- 2 piston rings
- 2 oil scraper rings
- 2 packing rings for piston rod,
- 1 each valve cone
- 100 valve rings.

For cooling water pumps :-

- 1 impeller for 1st stage
- 1 dto, for 2nd stage
- 1 shaft with bronze bushes
- 1 front bearing
- 1 rear bearing
- 1 ball bearing
- 1 distance bush
- 4 sets of rubber puffer rings
- 4 packing rings for the impellers
- 1 front stuffing box gland
- 1 rear stuffing box gland.

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For lubricating oil pumps :-

- 1 set of wheels with shafts for big pump
- 1 " " " " " small pump
- 1 set bearing bushes for big pump,
- 1 set bearing bushes for small pump.

For Auxiliary Engines 6RKH30 :-

- 2 main bearing bolts
- 1 working cylinder cover without valves
- 6 complete fuel valves
- 6 fuel valve needles
- 7 distributing nozzles
- 1 complete scavenge air valve
- 2 connecting rod bolts
- 2 working pistons
- 18 piston rings
- 1 piston rod
- 4 inwardly springy rings
- 5 running pipes
- 2 nozzles for piston rod
- 1 main bearing
- 1 fit bearing
- 2 cylinder liners
- 2 flame plates for fuel valve
- 1 connecting rod big end bearing
- 1 " " top " "
- 1 crosshead pin
- 6 fuel pump plungers
- 6 sets suction and delivery valves for fuel pump
- 1 set piping for fuel
- 1 set of principal bolts and studs
- 1 set of springs
- 1 set of packing material

No. 3076. - IX. 1929. 50,000.

Auxiliary Air Compressors, No.

No. of stages

Diameters

Stroke

Scavenging Air Pumps, No. *Tandem double acting* Diameter *1860 mm.*

Stroke *960 mm.*

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Quadruple
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By whom built

The Nederland S. B. Co.

Yard No. 203 W

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For cooling water pumps
of auxiliary engines

- 1 impeller
- 1 bearing bush
- 1 stuffing box
- 2 packing rings
- 1 shaft with bronze bushes.

Additional Parts ordered :

for 8882 :

- 1 main bearing for scavenge air pump
- 1 set of helical springs.

for 6RKH30 :

- 1 ignition plug
- 1 starting air non-return valve
- 6 safety valves on cylinder cover
- 8 cylinder cover studs
- 1 cotter for piston rod
- 6 guide bushes for stand pipe
- 6 screwed caps for fuel pump
suction valve
- 1 roller with pin for fuel pump
- 4 expansion rings for scavenging air chamber
- 3 driving wheels for oil pump.



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