

SHIP №. 185.

Spare Gear of Main Engines.

№.	Items.	Numbers of Parts.
1.	Crank shaft .....	One half.
2.	Cover of frame bearing .....	1
3.	Cylinder Cover with all valves, ready for instal- lation .....	1
4.	Fuel supply valve, ready for installation .....	6
5.	Needles for oil fuel valve and springs .....	26
6.	Sprayers .....	12
7.	Nut and washer for nipple .....	14 each.
8.	Starting valve ready for installation .....	1
9.	Cone of starting valve and spring .....	1
10.	Relief valve, ready for installation .....	1
11.	Cone of relief valve and spring .....	2
12.	Metallic packing for needle valves .....	25
13.	Vulcanized asbestos rings .....	24
14.	Piston and piston rings, ready for installation	1
15.	Rings for same (additional spares) .....	21 sets - 126 pieces
16.	Piston rod .....	1 complete.
17.	Telescoping cooling pipes for piston, for one piston .....	2 sets-4 pieces.
18.	Coupling for above complete .....	2 sets.
19.	Telescoping cooling pipe glands .....	2
20.	Leather sleeves for telescoping pipe .....	50
21.	Dividing rings for glands of telescoping pipes	24
22.	Cold water pipes for cooling of piston .....	1 set.
23.	Crank pin for main connecting rod .....	1
24.	Crosshead bearings of main connecting rod with- out brasses .....	2
25.	Brasses for one connecting rod of main engines with nuts and bolts .....	1 pair.
26.	Crank shaft bearing brasses of main shaft with bolts and nuts .....	1 "
27.	Gear wheels of distributing shaft .....	1 set.
28.	Distributing cams .....	1 set for 1st cy- linder.





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*For Auxiliary Pumps*

- |   |                  |
|---|------------------|
| 1. Suction and delivery valves of each type, ready for installation .....   | 1 each.          |
| 2. Valve cups and springs (additional spares) ....                          | 1 set each.      |
| 3. Relief valve with spring and seat .....                                  | 1 each.          |
| 4. Rocking lever with pin and bearing brasses, ready for installation ..... | 1                |
| 5. Impeller and bearing brasses and casing (centrifugal pump) .....         | 1 set.           |
| 6. Bolts and nuts and packing .....   | 5% of all sizes. |

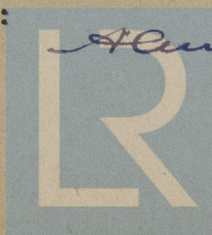
G e n e r a l .

- |   |                          |
|---|--------------------------|
| 1. Inserted cylinders for oil filters and gratings  | 1 set.                   |
| 2. Inserted cylinders for fuel oil filters with gratings and filtering cloth .....  | <del>1</del><br>1        |
| 3. Main stop valve for compressed air tank for scavenging and starting tanks, ready for instal.   | 1 each.                  |
| 4. Valve spindles with cones and seats (additional spares) .....  | 2 each.                  |
| 5. Overflowing valve and transfer valve, ready for installation .....   | 1 each.                  |
| 6. Valve spindles, with cones and seats (additional spares) .....   | 2 each.                  |
| 7. Pipes of every size used for fuel, feed and air injection pipe line to main engines, air pipes to air tanks from main and auxiliary air compressors and coupling and flanges for each. The length of pipe of each diameter is to exceed the longest section of pipe of the same diameter of the same pipe line used on board ..... | 1 set.                   |
| 8. Pipe couplings and bolts of all sizes used .....   | 2 each.                  |
| 9. Springs of all sizes as mentioned .....  | 10% (at least 1 each)    |
| 10. Bolts and nuts of all sizes, including coupling bolts for crank-shaft for cylinder covers of main engines and air compressors, frame bearings, link bearings of scavenging pumps for valve fastening, piston fastenings etc. ....   | 1 set for each Cylinder. |
| 11. The most important packing and liners .....   | 1 set.                   |
| 12. White metal 80% .....   | 50 kg.                   |
| 13. Links to each lever, which is actuating any pump from main engine .....   | 1 set.                   |
| 14. Additional <del>air</del> circulating pump, ready for installation : for fresh water .....  | 1 - x                    |
| for salt water .....  | 1 - xx                   |

x/ Is supplied by the Nicolaieff Government Works.

xx/ Is supplied by the Nicolaieff Government Works, - it is ~~at the~~ same time a ballast pump.

CHIEF OF DESIGNING OFFICE :



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# LIST OF SPARE GEAR

FOR EACH AUXILIARY ENGINE OF 60 AND 120 e.H.P. TANKER № 185.

№.	I t e m	Number.
1.	Working piston complete (with pin) .....	1
2.	Crank shaft bearing brasses with bolts and nuts (in two halves) .....	1
3.	Upper connecting-rod brasses .....	1
4.	Relief valve, complete .....	1
5.	Exhaust and suction valves .....	1 each.
6.	Oil fuel valve complete .....	1
7.	Starting valve complete .....	1
8.	Needles for spraying valve .....	2
9.	Washers for above .....	4
10.	Sprayers .....	2 sets.
11.	Exhaust valve springs .....	2
12.	Starting valve springs .....	2
13.	Oil fuel valve springs .....	1
14.	Working cylinders (3 without starting valves) ....	7
15.	Bolts and nuts for upper connecting rod bearing ...	2
16.	Ditto for lower connecting rod bearing .....	2
17.	Piston rings for each size of air compressor piston	1 set.
18.	For each size of suction and exhaust valves of air compressor .....	1/2 set.
19.	Oil fuel pump or all working parts of same .....	1
20.	B o l t s        a n d        n u t s .....	1 set.
21.	Cylinder cover studs and nuts for one cylinder ...	1 set
22.	Pipes of each size used for oil fuel system and air system from compressor to air flasks with couplings and flanges for each of them .....	1 set.
23.	Studs and nuts for main bearings .....	6
24.	Piston rings for working cylinders .....	3 sets.
25.	Cams for Oil fuel valve (rubbing pieces) .....	6
26.	Spring valves for cylinder lubricator .....	3 sets.
27.	Lower end connecting rod bearings .....	1 set.
28.	Air compressor piston and pin .....	1
29.	Upper end connecting rod brasses of air compressor	





No.	Item	Number.
30.	Governor springs .....	1 set.
31.	Lower end connecting rod bearing for compressor .....	1 each.
32.	Liners and packing (special) .....	1 set.
33.	Valve spindles, cones and seats for starting and working air valves to air tanks .....	2 each.
34.	Cams for all levers of valves .....	1 each.
35.	Cam levers .....	1 set for each motor
36.	Cylinder for air compressor, complete .....	1 set.
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1.	Spanners and tools for every 3 motors .....	1 set.
2.	High pressure air compressor valves .....	3 for each size
3.	Spraying valve complete, for every 3 motors .....	3
4.	Impellers for water pumps, for every 3 motors .....	1 pair.
5.	Elastic couplings for connecting Dynamo to water pump..	2 sets.

*Stamp 28*



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*9.09 in engines*