

ENGINES NO. K. 9.

LIST OF SPARE PARTS.

SPARES FOR VACUUM LUBRICATOR:

- 6 - Springs.
- 3 - Ratchet Pawls.
- 3 - Pistons.
- 36 - Pressure glasses.
- 6 - " " of celluloid.
- 3 - Sight glasses.
- 6 - Guide wires.
- 12 - Jointing rings.

AUXILIARY MACHINERY:

- 1 Set of valves (suction and delivery) for Bilge pump. ✓
- 1 " " " " " " " Ballast " ✓
- 1 " " " " " " " One steam feed pump.
- 1 " " " " " " " One lubricating oil pump.
- ✓ 1 " " " " " " " One oil fuel transfer pump.
- ✓ 1.- Spare impeller and bronze spindle, and 1 set of piston rings. suitable for either centrifugal pump.
- 1 - Spare set of filtering material for float and filter tank.
- 6 - Spare condenser tubes and 50 ferrules.
- Spares for Sharples Purifiers.
- 1 - Set piston & bucket rings for ballast pump. ✓
- 1 - " " " " " bilge ")



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- 1 - Set piston & bucket/^{rings} for feed pump.
- 1 - " " " " " transfer pump.
- 1 - " " " " " lubricating pump.
- 1 - " each H.P., M.P. & L.P. piston rings for air cylinder of emergency air compressor.
- 1 - set steam cylinder piston rings for emergency air compressor.
- 1 - set suction and discharge valves, seats and springs for emergency air compressor.

BOILER:

- 1 - Spring for safety valve.
- 6 - Plain boiler tubes (spares)
- 2 - Tube stoppers with screwed ends and washers.
- 2 - Feed check valves.
- 4 - Wire tube brushes.
- 12 - Water ~~gauge~~ glasses and 24 packing rings.
- 1 - Set caulking tools.
- 1 - Tube expander.
- 2 - Firebrick quarls (4 pieces)
- 3 - Scaling tools and 3 scaling hammers.
- 1 - Set of spare gear for pumping and heating plant, and burners as usually supplied by makers of oil fuel installation.

SHAFTING:

- 1 - Propeller shaft complete with liner and nut.
- 1 - Set tunnel shaft coupling bolts and nuts. ✓
- 2 - Solid cast iron propellers, right and left hand.
- 1 - Set crankshaft coupling bolts and nuts. ✓
- 1 - Set each port and starboard ahead Michell Thrust Block Pads.



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ELECTRIC MACHINERY:

- 1 - Set of brushes for workshop motor.
- 1 - " " " " lubricating oil purifier motor.

ENGINE ROOM OUTFIT:

- 3 - Notice boards for engine room.
- 4 - Brass oil cans each 3 lbs. capacity.
- 4 - Brass oil feeders (1/2, 3/4, 1 and 1-1/2 pints each)
- 2 - Brass syringes 1-1/4 x 15".
- 4 - Brass trays for oil cans.
- 2 - Tin plate oil sieves, 14" and 10".
 - 1 - 1" Brass cock for oil barrel.
 - 1 - Centre bit for oil barrel.
- 2 - 8" Brass funnels.
- 2 - Filling cans (one gallon)
- 2 - Fire extinguishers, of Pyrene make, with spares.

LAMPS ETC.

- 2 - Davy safety lamps.
- 4 - Hand lamps (tin)
- 2 - Pair lamp shears.
- 2 - lbs. lamp wick for hand lamps.
- 2 - Lamp cleaners.
- 1 - Box for lamp wick (japanned)
- 2 - electric hand lamps.

LIFTING GEAR ETC:

- 2 - 2-ton worm gear pulley blocks (Thomson's)
- 2 - 1-ton " " " " " "



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- 4 - Watch tackles with iron blocks and manilla falls.
- 2 - Crow bars (1 large and 1 small)
- 4 - Beam grabs.
- 4 - Shackles 1-in diameter pin.
- 1 - 4-ton lifting jack.
- 4 - Eyebolts of each of the following sizes: 1/4" to 1-1/2", rising by 1/8".
- 24 - Iron wedges (12 large and 12 small) 6" x 3" x 5/8", and 4" x 2" x 3/8".
- 3 - Hanks Seaman's twine.
- 4 - Hardwood wedges.
- 3 - Eyes for lifting cylinder covers.
- 4 - Lifting bar for pistons.
- 2 - Stools for cylinder covers.
- 2 - Stools for inlet and exhaust valves.
- 4 - Rest bars for crosshead.

INSTRUMENTS:

- 2 - Indicator with springs, scales and gear.
- 2 - 10" Thermometers, graded to 100 deg. C. in copper frame.
- 2 - 12" Thermometers, for cooling water, in copper frame.
- 1 - Spring balance to weigh 300 lbs.
- 2 - Adjusters for crankshaft fixed on engine.
- 1 - Planimeter with ship's name engraved on, to give metric readings.

PACKING TOOLS:

- 6 - Packing sticks, assorted.
- 6 - " screws "
- 2 - " knives.



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- 1 - Set winch condenser packing tools.
- 1 - Tube expander for cooler tubes, 16 m/m bore.
- 1 - Hank cord for packing condenser tubes.

SPANNERS AND SPECIAL TOOLS:

- 1 - Set double-ended spanners 1/4" to 1-1/2".
- 2 - " single " " 1/4" to 1-1/2" } Arranged in racks.
- 1 - " skeleton " 1/4" to 1-1/2" }
- 1 - " crowfoot " 3/8" to 1-1/2".
- 2 - Shifting spanners (9" and 15" long)

3. 1 - Propeller nut spanner.

1 - Short heavy spanner for coupling bolts.

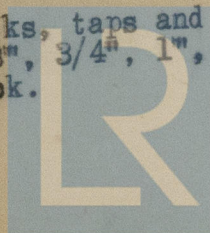
Special spanners as required for oil fuel installation.

Spanners as required for special purposes on main and auxiliary machinery.

- 1 - Set valve seating tools with guide bush, for fuel valve, regulating head, fuel pumps and drain valves.
- 1 - Set feelers for valve setting of main engine.
- 1 - Set grinding bars for cylinder valves.

TOOLS:

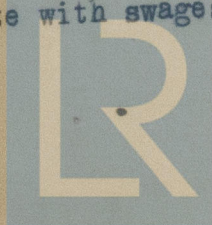
- 1 - Set vice grips (copper)
- 1 - " " " (lead)
- 12 - Half round files, assorted.
- 2 - 10" round files.
- 12 - Flat files, assorted.
- 12 - File handles.
- 1 - Hack saw, with six blades.
- 1 - Set stocks and dies in box, 1/4" to 1-1/4", Whitworth thread and three taps of each size.
- 1 - Set of Whitworth gas stocks, taps and dies, complete for 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4" and 1-1/2" in suitable case with lock.



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- 2 - Triangular scrapers.
- 3 - Flat "
- 1 - 5½" hand vice.
- 1 - Surface plate, 18" x 12".
- 1 - Straight edge, 4'0".
- 1 - 12" try square.
- 1 - Steel rule (inches and metres) one metre long.
- 1 - Pair inside callipers, 12".
- 1 - " outside " 16".
- 1 - " dividers, 7".
- 1 - " flat pliers, 6".
- 1 - " electrician's pliers, 6".
- 1 - " nippers, 6".
- 2 - Screw drivers, 5" and 10" long.
- 3 - Hand hammers.
- 1 - Sledge hammer, 10 lbs.
- 1 - Forge hammer, 14 lbs. 36" shaft.
- 1 - Rivetting hammer, 3 lbs.
- 1 - Copper hammer, 10 lbs.
- 1 - Lead hammer, 5 lbs.
- 1 - Muntz Metal Drift, 1-1/2" x 12".
- 10 - Hammer handles, 16" assorted.
- 3 - Flat chisels.
- 3 - Half round chisels.
- 3 - Cross cut chisels.
- 4 - Punches, assorted.
- 6 - Saddlers punches, assorted 1/4" to 1".
- 1 - Small portable forge with centrifugal blower, 18".
- 1 - Anvil (100 lbs.) complete with swages, punches, etc.



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- 2 - Pair Smiths' Tongs.
- 3 - Cold chisels.
- 1 - Foundry ladle, 7" diameter.
- 1 - Plumber's melting pot, 12".
- 1 - Soldering iron, 2 lbs.
- 1 - Brazing lamp.
- 2 - lbs. Soldering metal.
- 1 - Bottle soldering liquid.
- 1 - Ratchet brace with 12 bits (14")
- 1 - Drilling pillar.
- 1 - American breast drill with 12 spiral drills, assorted.
- 1 - Pair tinsmith's shears.
- 2 - Patent pipe wrenches (1 large and 1 small) up to 4",
and up to 1".
- 1 - Portable fitter's bench and vice.
- 1 - Hand emery grinder, 6".

JOINERS' TOOLS:

- 1 - Hatchet.
- 1 - Crank brace with 6 bits (1/4" to 1")
- 1 - Hand saw 26" long G.S.
- 2 - Chisels (3/4" and 1-1/4")
- 2 - Gouges (1/2" and 1")
- 1 - Wooden mallet (square head)
- 1 - Auger 3/4" (eyed)
- 1 - 1/4" gimlet.
- 1 "Washita" oil stone (8" long in case)

MISCELLANEOUS:

- 8 - Assorted scrapers.
- 1 - Box for emery (japanned)



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- 1 - Box red lead, 12" square.
- 1 - " white " " "
- 1 - " graphitum " "
- 1 - " soap " "
- 2 - Hand scrubbers.
- 2 - Scrubbers with handles.
- 2 - Sweeping brushes.
- 1 - Dust pan.
- 12 - "Piasava" brooms and handles.
- 4 - Scouring trays (japanned)
- 6 - 8" Paint pots.
- 12 - Paint brushes (assorted)
- 6 - Galvanised iron buckets.
- 2 - Mats.
- 4 - Swabs.
- 1 - Benzine can with screw plug (20-lbs. capacity)

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