

S.S. "TA-LUN"
ex
H.M.S. Castle Corvette "COPPER CLIFF"

SPARE GEAR AND TOOLS ETC., ON BOARD AT VANCOUVER, B. C., ON

17th APRIL, 1946.

MAIN ENGINES.

For Pistons.

Lockwood and Carlisle Rings H.P. - 1 set.
I.P. - 1 set.
L.P. - 2 set.
Codpieces for above... - 4 only
No springs
Junk ring studs, complete with washers,
nuts and split pins..... - 4 only.

For H.P. Piston Valve.

Rings (wearing parts only) - 1 set.

Codpieces for above..... - 4

Metallic Packing.

Wearing segments for 5-1/2 in. piston
rods (H.P. & M.P.)..... - 1-1/2 sets.

Wearing segments for 4-3/4 in. piston
rods (L.P.)..... - 1 set.

Wearing segments for 3-1/4 in. valve
spindles - 2 sets.

Springs for 5-1/2 in. rods,
metallic packing - 1 set.

Springs for 4-3/4 in. rods,
metallic packing - 1 set.

Springs for 3-1/4 in. rods,
metallic packing - 2 sets.

Packing Screws..... - 6

Packing Clamps..... - 7

For Main Bearings.

Brasses (each pair consisting of one
top and one bottom half, complete, with
nuts, bolts and solid and laminated
shims)..... - 2 pairs.

For Connecting Rods.

Brasses for top ends (each pair con-
sisting of one top and one bottom half,
complete with thick liners and solid and
laminated shims)..... - 1 pair.

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SPARE GEAR AND TOOLS ETC., (Continued).

Bolts (complete with nuts) for H.P. & M.P. top ends.....	2 pairs.
Bolts (complete with nuts) for L.P. top ends.....	2 pairs.
Brasses for bottom ends (each pair consisting of one top and one bottom half, complete with bolts, nuts, thick liners and solid and laminated shims).)	1 H.P.(pair) and 1 L.P.(pair)

For Valve Rods.

Top and bottom brasses for bottom end, complete with bolts, nuts, washers and split pins.....	1 pair.
Inner and outer half-brasses for valve rod guides complete with bolts, washers and nuts.....	1 pair.
Valve rod nuts (top end).....	2 only.

For Valve Gear.

Eccentric top brasses, liners, bolts, nuts, washers and split pins.....	1 H.P. and 1 L.P.
Quadrant block liners (each set sufficient for one valve rod).....	4 sets.
Top and bottom drag link brasses, complete with bolts, nuts and washers.	4 pairs.

For cylinder and Valve Chest relief valves.

Springs.....	4
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For main regulating and throttle valve.

Flexible discs.....	2
Spring.....	1

For force-feed lubricators.

Sight glasses.....	2
Springs.....	3
Sight glass joints.....	4

Bolts and studs (complete with nuts). etc.

Assorted	12.
For cylinder and valve chest covers....	60 only.

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SPARE GEAR AND TOOLS ETC., (Continued).

Special split pins or cotters 40 assorted sizes.

Spanners and tools.

Heavy open-ended spanner for H.P. & M.P.
top ends and Nos. 1,3,4, & 6 main bearings. 1 only

Light do for do 1 only.

Heavy do for H.P. & M.P. bottom
ends and Nos. 2 & 5 main bearings..... 1 only.

Light do for do 1 only.

Heavy do for L.P. top ends..... 1 only.

Light do for do 1 only.

Heavy do for L.P. bottom ends... 1 only.

Light do for do 1 only.

Ring spanner for H.P. & M.P. piston
rod nuts..... 1 only.

Ring spanner for L.P. & M.P. piston
rod nuts..... 1 only.

Ring spanner for Nos. 1,3,4 & 6 main
bearings..... 1 only.

Ring spanner for Nos. 2 & 5 main
bearings..... 1 only.

Box spanner for junk ring nuts (pistons). 1 only.

Box spanner for junk ring nuts (H.P.
piston valve)..... 1 only.

Clawfoot spanner for valve spindles..... 1 only.

Skeleton spanner for expansion blocks... 1 only.

Gear (including strong backs) for with-
drawing piston and valves. H.P. M.P. &
L.P..... 1 complete set.

Assorted (shouldered) eyebolts, for all
main engine purposes).....

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7

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SPARE GEAR AND TOOLS ETC. (Continued).

Strops (steel wire) for main engine
purposes..... 6 off.

Starting screws (for all main engine
purposes..... 1 complete
set.

Trammel for lining up crankshaft..... 1 only.

Wear-down gauge for crankshaft..... 1 only.

Valve sticks..... 1 set.

Ratchet for turning gear..... 1 only.

Support plates (complete with bolts) for
crossheads H.P. & M.P..... 1 only.

Support plates (complete with bolts) for
crossheads H.P. & L.P..... 1 only.

Gear for withdrawing metallic packing..... 1 set for each
size of rod.

Allen set-screw wrenches (1-1/4-in, 3/8-in. 1 set of
each size.

Sundry, other special and ordinary spanners
and tools required for dismantling,
refitting and replacing machinery.....

THRUST BLOCK.

Adjusting liners (of various thicknesses).. 1 set.

Thrust pads..... 1 set of six.

Journal bearings..... 2 only.

Oil level gauge glass..... 1 only.

PROPELLER AND PROPELLER SHAFTING.

Shackles and strongback for propeller..... 1 set.

Eyebolts for slinging propeller..... 2 only.

Spanner for propeller nut..... 1 only.

Bolts (with nuts) for propeller shaft
couplings..... 1 set of six.

Spanner for coupling bolts..... 1 only.

PLUMMER BLOCKS.

Journal pads (used)..... 1 set.

Oil level gauge glasses..... 2 only.

SPARE GEAR AND TOOLS ETC. (Continued).

Main Condenser.

Ferrules.....	65.
Cap ferrules (screwed).....	100.
Steel protection plates.....	4 only.
Studs (each complete with two nuts) for tubeplate joints.....	4 only.
Springs for relief valves.....	3 only.
Shackles for end doors.....	1 complete set for both doors at once.
Blank flanges for testing condenser.....	1 set.
Tools for re-tubing condenser.....	1 set.
Tap and wrench for tapping holes in tube-plates.....	1 of each.

Main Circulating Engine and Pump.

Piston rings.....	2 only.
Piston rod, complete with crosshead brasses, bolts, all nuts, slipper and set screws.....	1 only.
Crankhead brasses, complete with bolts and nuts.....	1 pair.
Piston valve.....	1 only.
Valve rod, complete with nuts and bush....	1 only.
Eccentric rod, complete with pin, studs and nuts.....	1 only.
Eccentric strap, complete with bolts and nuts.....	1 only.
Main bearing brasses for crankshaft.....	2 pairs.
Neck rings for piston and valve rods.....	1 complete set.
Valve rod guide.....	1 only.
Springs for relief valves and oil pump....	1 complete set.
Oil pump, complete with plunger, bush, strainer, barrel etc.	1 only.
Gear for withdrawing piston.....	1 set.

SPARE GEAR AND TOOLS ETC. (Continued).

Spanners..... 1 complete set.
 Barring lever..... 1 only.
 Pump impeller shaft..... 1 only.
 Main bearing brasses for impeller shaft. 2 pairs.

Air Pump

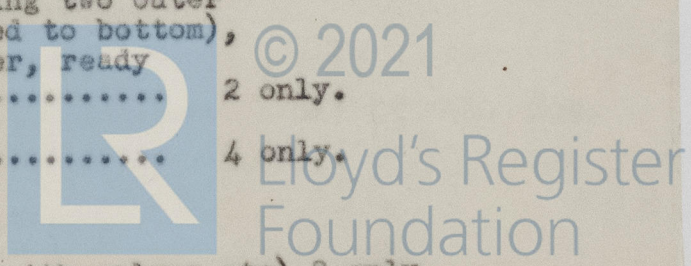
Piston valve chest (complete with valve
 etc.). 1 only.
 Valve motion gear, complete with levers,
 bushes, pins, ball crosshead, etc..... 1 set.
 Piston and pump rod, complete with nuts,
 crosshead and crosshead pin..... 1 only.
 Packing for all glands..... 1 complete set.
 Piston rings..... 2 only.
 Bucket rings..... 2 only.
 Neck rings for cylinder and P.V. chest
 glands..... 1 complete set.
 Kinghorn valves {5-1/4-ins. diameter.....}
 Do Do {5-1/8-ins. diameter.....} 60 only.
 Columns (each complete with nut and
 distance piece for Kinghorn valves)..... 15 nuts - 20
 distance pieces.
 Guards for Kinghorn valves..... 20 only.
 Starting lever..... 1 only.
 Gear for withdrawing piston and plunger. 1 set.
 Surface plate..... 1 only.
 Double-ended spanners..... 3 only.

Feed Filter (Grease Extractor).

Double elements, each comprising two outer
 and two inner grids (all welded to bottom),
 one wing nut and one grid cover, ready
 packed with fibre..... 2 only.
 Oil filters..... 4 only.

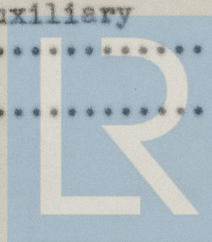
Main and Auxiliary Feed Pumps.

Piston valve chests (complete with valves etc) 2 only.



SPARE GEAR AND TOOLS ETC. (Continued).

Valve motion gears, complete with levers,	1 set for main pump
bushes, pins, ball crossheads, etc.....	1 set for aux. pump.
Piston rods and nuts.....	1 only of each size.
Pump rods and nuts.....	1 only of each size.
Crossheads and crosshead pins, complete	
with bolts, nuts and taper pins.....	1 set of each size.
Packing for all glands.....	1 complete set for
	each pump.
Piston rings.....	4 only for main
	pump - 3 only
	for aux. pumps.
Bucket rings.....	2 only for main pump.
	2 only for aux. pumps.
Neck rings for all glands.....	1 set for main pump
	1 set for one aux. pump.
Valves, suction for main pump.....	6 only.
Valves discharge for main pump.....	4 only.
Valves suction and discharge, for	
auxiliary pumps.....	12 only.
Suction valve seats.....	1 only for each size.
Suction valve guards for main pump.....	1 only.
Suction valve guards for auxiliary pumps..	2 only.
Discharge valve guards for main pump.....	1 only.
Discharge valve guards for auxiliary pumps.	2 only.
Group valve columns, centre, for main	
pump.....	1 only.
Group valve columns, outer for main pump..	7 only.
Group valve columns, for auxiliary pumps..	12 only.
Discharge valve springs for main pump.....	8 only.
Discharge valve springs for auxiliary	
pumps.....	12 only.
Relief valve springs.....	1 only of each size.



SPARE GEAR ETC. AND TOOLS. (Continued).

Starting levers.....	1 for main pump 2 for aux. pumps.
Gear for withdrawing pistons and buckets....	1 set of each size.
Surface plates.....	2 only.
Double-ended spanners.....	3 only for main pumps. 2 pairs for aux. pumps.

Feed Heater.

"U" Bends (one of each curvature).....	6 only.
Springs for relief valves.....	2 only.

Boilers.

Manhole door joints (wire-woven gaskets).

Pattn. No. 1405 - 27/32-in. wide by 13-21/32-ins. by 17-21/32-ins.....	3 only.
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For Water Gauges.

Gauge glass tubes, each complete with packing rings.....	4 only.
Glass protector plates.....	6 only.
Tube expanders, complete with mandrels and rollers for tubes of 1-in. o.d. (inner rows).	2 only.
(wing rows) .	2 only.
("Q" rows)...	2 only.
Tube expanders, complete with mandrels and rollers for tubes of 1-1/8 ins. o.d.	
(steam drums).....	2 only.
(water drums).....	2 only.
for tubes of 1-1/2-ins. o.d.	
(steam drums).....	2 only.
for tubes of 1-1/2-ins. o.d.	
(water drums).....	2 only.

Spanners for manhole doors --

Box, Pattern No. 1482.....	2 only.
Offset, for water drum doors.....	2 only.
Spanners, double-ended, Pattern No. 1435.....	2 only.
Spanners, double-ended, Pattern No. 1438.....	2 only.
Thermometer holders for back end of boiler...	2 only.

SPARE GEAR AND TOOLS ETC. (Continued).

Pressure gauge cock 3/8".....	1 only.
Salinometer cock 3/8".....	1 only.
Air cock for back of boiler 3/8".....	1 only.
Flat wire brushes (for external cleaning)	12 only.
Hand wire brushes.....	3 only.

Boiler Safety Valves.

Springs.....	2 only.
Double gagging gear (each set to contain two pieces).....	2 sets.
Grinding gear.....	1 set.

Boiler Feed Regulators.

Needle valves, each complete with links and pins.....	2 only.
Pivot pin bushes.....	4 only.
Pivot pins.....	2 only.
Float needle valve seats.....	2 only.
Float needle valve guides.....	2 only.
Float needle valve guide bushes.....	2 only.

Forced draught Fans and Engines.

Piston rings.....	4 only.
Piston rod (complete with nut).....	1 only.
Crosshead, complete with slipper, brasses, bolts and nuts.....	1 only.
Crankhead brasses, complete with bolts and nuts.....	1 pair.

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SPARE GEAR AND TOOLS ETC. (Continued).

Piston valves.....	2 only.
Valve rod, complete with pin, washer and nut.....	1 only.
Eccentric rod, complete with strap, studs, bolts and nuts.....	1 only.
Main bearing brasses.....	2 pairs.
Metallic packing (rubbing parts only and springs.....	2 complete sets for all steam and oil glands of one engine.
Neck rings for piston and valve rods.....	1 set for one engine.
Springs for relief valves and oil pumps..	2 complete sets for one engine
Oil pump, complete with plunger, barrel, etc.....	1 only.
Gear for withdrawing pistons.....	1 set for one engine.
Spanners.....	2 sets for one engine.
Box wrenches.....	2 only.
Barring levers.....	1 only.

Oil Fuel Burning Equipment.

For sprayers.

Bodies (standard) without caps or plugs..	3 only.
Carriages.....	2 only.
No. 2 size (600 lbs.) caps with plugs....	3 only A&A. L.C.
Spanners for removing sprayer caps.....	2 sets.
Copper washers for oil heaters.....	36 only.
Sprayer body holders..... (21-4A-8-23, 21-4A-8-4 of 3/9/43).	3 only.
Tools for removing sprayer plugs.....	2 only.
Package for oil strainer elements.....	6 only.
Screwed blanks for oil supply pipes.....	6 only.
Spare cones for fuel oil units.....	3 only.

SPARE GEAR AND TOOLS ETC. (Continued).

For lighting-up Sets. (working parts only-
No. spares req'd).

U-tube, complete with retarders..... 2 only.
Flexible metallic hoses, complete with
connections..... 4 only.
Thermometer boxes..... 2 only.
Thermometers..... 2 only.
Lighting-up sprayer bodies..... 2 only.
No. 0 Size (250 lbs.) caps, with plugs..... 2 only.

For heaters.

Relief valve spring..... 2 only.

For strainers (suction and discharge)

Autokleen cartridges..... 2 only.

For observation drain tanks.

Glass plates (small)..... 6 only.
Glass plates (large)..... 2 only.

For Steam-Driven Pumps.

Piston valve chest (complete with valve etc.). 1 only.
Valve motion gear, complete with levers,
bushes pins, ball crosshead, etc..... 1 set for one pump.
Piston and pump rod, complete with nuts,
crosshead and crosshead pin..... 1 only.
Auxiliary valve spindle..... 1 only.
Packing for all glands..... 2 complete sets.
Piston rings..... 2 only.
Bucket rings..... 2 only.
Neck rings for all glands..... 1 set for one pump.
Suction valves..... 1 complete set
for one pump.
Discharge valves..... 1 complete set
for one pump.



SPARE GEAR AND TOOLS ETC. (Continued).

Suction valve columns.....	1 complete set for one pump
Discharge valve columns.....	1 do do
Valve springs.....	1 do do
Relief valve springs.....	2 only.
Starting levers.....	2 only.
Gear for withdrawing pistons and plungers..	1 set.
Surface plate.....	1 only.
Double-ended spanners.....	4 only.

Fire-and-Bilge Pumps.

Steam valve chest, complete with valves, covers spindles, gland and neck rings, pilot valve spindle, tail piece, etc.....	1 only.
Valve gear levers, complete with crosspiece, pins, collars, bracket and bush.....	1 set for one pump.
Piston rod, complete with nut, crosshead, bolts and crosshead pin.....	1 only.
Pump rod (complete with nut).....	1 only.
Pilot valve operating rod.....	1 only.
Packing for all glands.....	2 sets.
Piston rings.....	4 only.
Bucket rings.....	2 only.
Neck rings for all glands.....	1 complete set.
Valves, suction.....	1 complete set for one pump.
Valves, discharge.....	1 complete set for one pump.
Suction valve seats.....	1 complete set for one pump.
Discharge valve seats.....	1 complete set for one pump.
Suction valve guards.....	1 complete set for one pump.



SPARE GEAR AND TOOLS ETC. (Continued).

Discharge valve guards..... 1 complete set
for one pump

Suction and discharge valve springs and
valve stud springs..... 1 complete set
for one pump.

Relief valve springs..... 1 only.

Starting levers..... 2 only.

Surface plate..... 1 only.

Spanners..... 2 sets.

Evaporating and Distilling Plant.

For Evaporator.

Coils, each complete with couplings..... 8 only.

Nipples for coil couplings..... 2 only.

Nuts for coil couplings (steam end)..... 2 only.

Nuts for coil couplings (drain end)..... 2 only.

Automatic feed regulator (complete)..... 1 only.

Spring for coil safety valve..... 1 only.

Spring shell do 1 only.

Brine suction valve (complete)..... 1 only.

For Distiller.

Tubes..... 12 only.

Spring for circulating water outlet
valve..... 1 only.

For Combined Pump.

Piston valve chest (complete with valve
etc). 1 only.

Valve motion gear, complete with levers
bushes, pins, ball crosshead etc..... 1 set.

Piston and circulating pump rod, complete
with nuts, crosshead, beam and pins..... 1 set.

Fresh water pump rod (complete with nuts) 1 only.

Brine pump rod (complete with nuts)..... 1 only.

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SPARE GEAR AND TOOLS ETC. (Continued).

Liner for circulating pump.....	1 only.
Liner for fresh water pump.....	1 only.
Liner for brine pump.....	1 only.
Packing for all glands.....	1 complete set.
Piston rings.....	4 only.
Bucket rings for circulating pump.....	2 only.
Valves (Kinghorn) for circulating pump...	12 only.
Valves (Kinghorn) for fresh water pump...	4 only.
Valves (mitre) for brine pump.....	3 only.
Columns for valves of circulating pump...	8 only.
Columns for valves of brine pump.....	3 only.
Guards for valves of circulating pump....	2 only.
Guards for valves of fresh water pump....	1 set.
Guards for valves of brine pump.....	2 only.
Seats for valves of circulating pump.....	1 set.
Seats for valves of fresh water pump.....	1 set.
Seats for valves of brine pump.....	1 set.
Springs for valves of circulating pump....	4 only.
Springs for valves of brine pump.....	3 only.
Springs for relief valves.....	1 of each type and size fitted.

Tools.

Surface plate (for auxiliary steam valve of pump).....	1 only.
Starting lever (for pump).....	1 only.
Gear for withdrawing piston and plungers.	1 set.
Gear for withdrawing pump liners.....	1 set.
Key for coil couplings.....	1 only.
Spanner (box) for door nuts.....	1 only.
Spanner (box) for coil nuts.....	1 only.

SPARE GEAR AND TOOLS ETC. (Continued).

Spanner (crowfoot) for door nuts..... 1 only.
Spanners, double-ended..... 4 only.
Spanners for piston and pump rod nuts.....2 only.

Steam-Driven Dynamo Engines.

Piston rings..... 2 complete sets
(i.e., sufficient
for both pistons
of both engines).

Piston rod, complete with two nuts and
cotters..... 1 only.

Crosshead, complete with slippers and shims. 1 only.

Top end brasses, complete with bolts and
nuts..... 1 set (i.e.,
sufficient for one
connecting rod).

Coil spring for Tachometer..... 1 only.

Crankhead brasses, complete with bolts
and nuts..... 1 set (i.e.,
sufficient for 1
connecting rod).

Piston valves..... 2 only.

Piston valve rod, complete with pin,
bushing and nut..... 1 only.

Eccentric rod..... 1 only.

Eccentric strap (top and bottom halves),
complete with bolts, studs and nuts..... 1 only.

Main bearing brasses
 Nos. 1,2 and 3 bearings..... 2 sets (ea. for
 1 bearing).
 No. 4 bearing (flywheel end)..... 1 set for 1
 bearing.

Oil pump assembly 1 complete set.

Draw bolts and gear for pistons..... 1 set.

Spanners..... 1 complete set
for 1 engine.

Barring levers..... 1 only.



SPARE GEAR AND TOOLS ETC. (Continued).

Diesel-Driven Dynamo Engine.

Bolts (or studs) and nuts for main bearings..	Good supply.
Bolts and nuts for lower end of connecting rod.....	The same total number as is fitted in engine.
Main bearing shells.....	The same total number as fitted in engine -4-.
Crank pin bearing shells:.....	Do-2 only.
Piston pin bushings.....	The Same total number as fitted in engine.
Bushes for all other principal parts.....	Do
Connecting rod, complete with piston pin, shells, bolts and nuts.....	1 only.
Cylinder heads, each complete with valves, cages, springs, bolts (or studs), nuts and injection valves.....	3 only.
Cylinder liners, each complete with sealing rings.....	3 only.
Injection pumps, each complete with injection pipes and injection valves.....	3 only.
Cartridges for fuel oil fitter.....	2 only.
Elements for lubricating oil fitter.....	4 only.
Fuel supply pump, complete.....	1 only.
Gaskets and sealing rings.....	3 of each size and type fitted in engine.
Lubricating oil pump, complete.....	1 only.
Pistons, each complete with rings and pins...	3 only.
Piston pins (in addition to those supplied with pistons).....	3 only.
Piston rings (in addition to those supplied with pistons).....	1 set.
Shaft coupling - rubber bushes for bolts.....	2 complete sets.
Springs of all kinds.....	1 for every one fitted in engine.
Starting cartridges.....	100 only.
Valves, exhaust.....	3 only.

SPARE GEAR AND TOOLS ETC. (Continued).

Valves, inlet.....	3 only.
Valve rocker and pin, exhaust.....	1 only.
Valve rocker, inlet.....	1 only.
Water pump, complete.....	1 only.
Assorted tools.....	1 set.

Electrical Spares for Generating Sets.

See separate sheet.

Telegraphs.

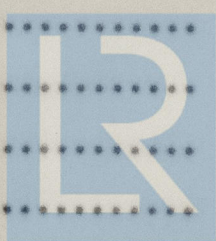
Engine order transmitter - dial for starboard side.....	1 only.
Engine order transmitter - dial for port side.....	1 only.
Springs for engine order telegraphs and stokehold telegraphs.....	2 sets.

Sirennette.

Sirennette.....	1 only.
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Anchor Windlass.

Piston rings.....	2 only.
Piston rod, complete with crosshead brasses, bolts, slipper, studs and all nuts.....	1 only.
Crankhead brasses, complete with bolts and nuts.....	1 pair.
Piston valve.....	1 only.
Valve rod, complete with pin, nut and washer.....	1 only.
Eccentric strap, complete with bolts and nuts.....	1 only.
Main bearing brasses, for crankshaft.....	2 pairs.
Main shaft bearing brasses.....	3 pairs.
Gear for withdrawing pistons.....	1 set.
Spanners and wrenches.....	1 set.
Barring lever.....	1 only.



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SPARE GEAR AND TOOLS ETC. (Continued).

Steering Engine and Gear.

Piston rings.,..... 4 only.
Piston rod, complete with crosshead
brasses, bolts, slipper and all nuts..... 1 only.
Crankhead brasses, complete with bolts
and nuts..... 1 pair.
Piston valves..... 2 only.
Valve rod, complete with pin, nut and
washer..... 1 only.
Eccentric rod and strap, complete with
bolts and nuts..... 1 only.
Main bearing brasses for crankshaft..... 2 pairs.
Bush for lower hunting shaft bracket..... 1 only.
Bush for hunting shaft..... 1 only.
Bush for control valve rod..... 1 only.
Control valve..... 1 only.
Bush for upper vertical shaft..... 1 only.
Bush for lower vertical shaft..... 1 only.
Gear for withdrawing pistons..... 1 set.
Spanners and wrenches..... 1 set.
Barring lever..... 1 only.

Steering Telemotors.

Motor gear springs..... 2 only.
Suction and relief valve, complete..... 1 only.
By-pass valves, complete..... 2 only.
Springs for suction and relief valves..... 1 of each.
Springs for by-pass valve..... 2 only.
Spring for non-return valve..... 1 only.
3/8 in. pipe couplings..... 4 only.
3/8 in. pipe adaptors..... 2 only.
Woodite faces for by-pass..... 2 only.
Woodite face for relief valve..... 1 only.

SPARE GEAR AND TOOLS ETC. (Continued).

Leather face for suction valve..... 1 only.
Joint rings, assorted.....15 only.
Rubber rings..... 4 only.
Gauge glass tubes..... 2 only.
Gauge glass plates..... 2 only.
Packing rings for transmitter and motor
gear..... 8 of each.
Hydraulic packing, 3/16 in. x 3/16 in.sq. 9 ft.
Hydraulic packing, 1/4 in. x 1/4 in.sq... 5 ft.
Glycerometer..... 1 only.
Thermometer..... 1 only.
No. 3 hydraulic grease..... 1 lb.
Spanners - double-ended..... 6 only.
Spanners - single-ended..... 2 only.
Spanners - gland..... 1 only.
Spanners - for air cocks..... 1 only.
Wrench for gland nuts..... 1 only.

Cooling Machinery.

2 unopened boxes of small spare parts
on board.....

Miscellaneous.

For Reducing Valves.

Discs. (India rubber or metal)..... 4 only.
Springs..... 4 only.

For Auxiliary Exhaust System.

Spring for relief valve to condenser.... 1 only.
Spring for relief valve to atmosphere... 1 only.
Springs for relief valves on anchor
windlass and steering engine exhausts... 1 of each type
and size fitted.

For Auxiliary Feed Pump Discharge to Feed Tank
Filling Line.

SPARE GEAR AND TOOLS ETC. (Continued).

Spring for relief valve..... 1 only.

For Main and Auxiliary Steam and Exhaust Separators.

Gauge glass tubes (assorted sizes, each complete with packing rings..... 6 only.

Glass plates for gauge glass protectors (assorted sizes)..... 4 only.

For Steam Traps.

Spare traps, complete..... 2 only.

Cartridges..... 2 only.

ENGINE ROOM OUTFIT.

Smith's tongs..... 2 prs.

6" parallel bench vice..... 1 in each blr. rm.
& 1 in eng. rm.

Vice bench..... do

Tin drip tray and strainer..... 1 set.

25-ft. wash-deck hose..... 1 only.

Fireman's hoses, 1-1/8" bore, 12'-0" long (one in engine room, one in each boiler room)..... 3

Lead hammer..... 1 only.

Engineer's log board..)
" lock-up desk) in engine room... 1 only
1 only.

Gradle for oil barrel..... 1 only.

Oil barrel hand pump..... 1 only.

Engine Room Stores - Miscellaneous.

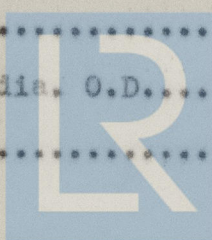
Sheet brass -5' x 3' and 3' x 2'..... 2 Sheets.

Sheet copper 3' x 2'..... 1 Sheet.

Du-wrangles gauge cock packing..... 2 cans.

Canvas packing ferrules 3/4" dia. O.D.... 600

Spare gland studs and nuts..... 2



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SPARE GEAR AND TOOLS ETC. (Continued).

Spare rings and resilient washers - bulkhead stop valves.....	4 only.
Graphite.....	1 bag-1 lb.
Rubber joints for lubricators.....	12 only.
Spare discs.....	2) for combined
Spare Piston Rings.....	2) regulating
Spare spring.....	1) throttle and emergency valve.
Assorted old files.....	12 only.
Fly wheel puller.....	1 only.
Drill stand for ratchet.....	1 only.
Set old rope blocks - single pulley.....	1 set.
Wire slings - short.....	6 only.
1-1/2" steam valve - brass - old.....	1 only.
Sheet iron 4x8, - 2 of 1/32", 1 of 1/16", 1 of 1/8".....	4 sheets.
Extension cable holder-electric 20'.....	1 only.
Electric cable.....	500 feet.
Assorted used nuts, bolts, screws.....	1 box.
Scrapers.....	3 only.
Pump chamber draw bolt.....	1 only.
Draw stud for propeller.....	1 only.
Stocks and dies only 1-1/8", 1-1/4".....	1 set.
Ratchet drills short with square shanks.....	12 only.
Die nuts, 1-1/8", 1", 7/8", 3/4", 5/8".....	5 only.
Release springs for reduction valve.....	2 only.
Twist drill 1-1/4".....	1 only.
Metallic fuel hose 4".....	3 lengths.
Spares for ammunition hoist.....	1 box.
Spares for 20 ton electric vertical fire pump - forward.....	2 boxes.
Spares for centrifugal pump - fire.....	1 box.

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SPARE GEAR AND TOOLS ETC. (Continued).

Engine Stores Miscellaneous (cont'd).

Eye bolts - 1-1/2".	3 only.
Eye bolts - 1-3/4".	1 only.
Eye bolts - 1-1/4".	2 only.
Eye bolts - 1".	1 only.
Draw bolts 5/8".	3 only.
Adjusting screw 5/8".	1 only.
Long stud 1-1/4" x 14".	1 only.
Steel studs.	24 only.
Asbestos cloth 4' x 2'.	1 piece.
Steam jointing..... 1/32".	1/2 sheet.
Steam jointing 1/16".	1-1/2 sheets.
Rubber jointing 1/4".	1 roll.
Asbestos tape 2", Approx. 50'.	1 roll.
Oil jointing.	1 roll.
Filtering material - fibre.	2 ctn.
Canvas.	1 roll.
Lockhead brake fluid - orange.	4 - 128 fl. oz cans.
Menth spirits.	2 - 1 gal cans.
Drier.	3 - 1 gal cans.
Floor polish.	8 small tins.
Liquid metal polish.	29 small tins.
Shadowwhite - various shades.	7 - 1qt. cans.
Frosting powder.	2 tins.
White spirit, 2 gal.	2 tins.
Single electric wire - various sizes rubber coated.	500 ft.
Asbestos fibre.	1 bag.



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SPARE GEAR AND TOOLS ETC. (Continued).

Engine Stores Miscellaneous (cont'd).

Crow foot Spanners.

3 - 1"
1 - 1-3/4"
1 - 7/8"
2 - 3/4"
3 - 5/8"

Ring Spanners.

1 - 1-1/4"
1 - 1-1/8"
2 - 7/8"
3 - 3/4"

Double ended Spanners.

2 - 7/8" to 1"
2 - 5/8" to 3/4"
3 - 1" to 1-1/8"
3 - 1-1/4" to 1-1/2"

Single ended Spanners.

3 - 1-1/8"
4 - 1-1/4"
4 - 1-3/8"

Box Spanners.

1 - 5/8"
1 - 3/4"
2 - 1"

2 piston nut spanners.
2 metallic hose spanners.
3 waste pump spanners.
1 propeller nut spanner
5 wheel spanners.
1 watertight door ratchet
spanner.

Soft Packing.

Chesterton 3/8" graphite flax..... 1 box.
3/4" graphite flax..... 1 roll.
1/2" graphite flax..... 1 roll.
1/4" graphite flax..... 30 ft.
1/2" graphite flax..... 100 ft.
5/8" graphite flax..... 60 ft.
3/4" graphite flax..... 100 ft.
1-1/4" graphite flax..... 30 ft.
3/4" greasy flax..... 20 ft.
3/4" Asbestos rope..... 20 ft.
1/8" Asbestos cord..... 1 coil.
1/4" Asbestos cord..... 1 coil.
1/2" Asbestos rope..... 1 coil.
5/8" Asbestos rope..... 1 coil.
7/8" Asbestos rope..... 1 coil.



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SPARE GEAR AND TOOLS ETC. (Continued).

Boiler Room Spares.

4" Vice and bench..... 2 only.
Thermometers..... 2 only.
Trimmers lamp..... 1 only.
Oil cans..... 2 only.
Boiler door wrench..... 1 only.
Spanner 3/4"..... 1 only.
Sounding rod..... 2 only.
Bilge suction hose 32' with connections
to pump 2 lengths.
Fire Extinguishers in E.R. & stockehold.. 6 - 2 gal.
Blacksmith tongs..... 1 only.
Grub screws 1/4" and 3/8"..... 2 doz.
Tap Wrenches..... 5 only.
Anvil - blacksmiths..... 1 only.
3/4" Drain cock for main stop valve..... 1 only.

Engine Spares.

Spares for Struthers & Pitt rotary pump.. 1 box.

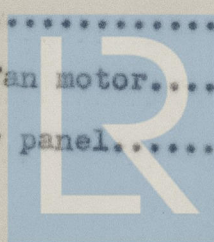
Electrical Spares.

Spare armature for 2 K.W. motor, 220 volts.. 1 box.
Spare armature for 14.5 H.P. 20 ton
fresh.water.pump..... 1 box.
Spare Field coils for 2 K.W. M.G. set.... 1 box.
Spare field coils for machine #44179
15 K.W., 1500 R.P.M..... 1 box.
Spare armature for compound wound
generator. 30 K.W. ~~500 H.P.~~..... 1 box.
Spare coils for 30 K.W. generator..... 1 box.
Spare coils for 60 K.W. generator..... 1 box.
Spare Armature for 60 K.W. generator..... 1 box.
Spare main shunt coils for 60 K.W. generator 1 box.

SPARE GEAR AND TOOLS ETC. (Continued).

Electrical Spares (cont'd).

Spare armature for 15 K.W. generator.....	1 box.
Spare for 5" fan motor.....	1 box.
Spare for 3 K.W. potentiometer regulator..	1 box.
Spare for salvage pump starter.....	1 box.
Small spare for compound wound generator..	1 box.
Spare bearings, brush holders and tension springs.for.single.phase.motor.alternators.	1 box.
Spare control gears for domestic refrigerator.....	1 box.
Spare for 10" fan motor starter.....	1 box.
Small spare for compound wound motor.....	1 box.
Spare for 12" fan motor.....	1 box.
Spares for 10" fan motor.....	1 box.
Spares for 60 K.W. steam generator.....	2 boxes.
Spares for 60 K.W. steam generator starter.	1 box.
Spare armature for 12-1/2" fan.....	1 box.
Spare elements.....	1 box.
Spare armatures for 17-1/2" fan.....	1 box.
Spare field coils for sounding motor.....	2 boxes.
Spare field coils for 1-1/2 H.P. motor.....	1 box.
Spare D. G. reversing motor.....	1 box.
Spares for armature for 1-1/2 B.H.P. motor.	1 box.
Spares armature for 1.4 H.P. fan motor.....	1 box.
Spares for 2 K.W. low power starter.....	1 box.
Spare interpole coils for 12" fan motor....	1 box.
Spares for frig. motor.....	1 box.
Spare field coils for 14 amp. fan motor....	1 box.
Spares for generator and feeder panel.....	1 box.



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SPARE GEAR AND TOOLS ETC. (Continued).

Electrical Spares (cont'd).

Spare coils for 10"-7-1/2"-5" fan motors..... 3 boxes.

Spares for 15 K.W. motor operated
potentrometer regulator..... 1 box.

Spare armature for 10" fan motor..... 1 box.

For Self and R. Knox.

W. B. Gill

SURVEYOR TO LLOYD'S REGISTER.



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