

--- OUTFIT AND SPARE GEAR LIST ---

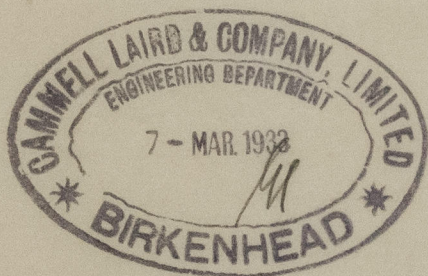
BIRKENHEAD PASSENGER FERRY STEAMER.

ENGINES & BOILERS NO. 988.

E.S.	Fitting Shop and Stores
B.S.	Boiler Shop and Stores
B.D.	Buying Department
D.O.	Drawing Office.

NOTE:-

All tools to be of best quality, and all chisels, hammers, spanners and all other portable steel tools to be clearly type marked with name of ship. All spanners, eyebolts and shackles, to be suitably racked.



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Ordered by.

D.O. One complete set of box spanners, in rack, to suit all nuts on engines, viz: - $3/8"$ to $1.1/8"$ advancing in $1/8"$ = 7.

D.O. One complete set of spanners in rack to fit all nuts on engines viz: - $1/4"$ to $1.1/2"$ advancing in $1/8"$ = 11.

B.S. 2 Spanners to fit boiler manhole door dognuts.

E.S. 1 set of eye bolts in rack $3/8"$ to $1"$ advancing in $1/8th$
2 off each size = 12.

D.O. 2 Ordinary ~~Bent~~^{Box} Spanners for Junk Ring Stud Nuts

" 1 Ring Spanner for Main Bearing Nuts

" 1 Ring Spanner for Piston Rod Nuts

" 1 Ring Spanner for Crosshead Nuts.

" 1 Ring Spanner for Bottom End Conn. Rod Nuts.

" 1 Thin Spanner for Link Block Nuts.

" 3 Ring Spanners for Main Reversing Lever Nuts

" 1 Ring Spanner for Cylinder Cover Nuts

" 1 Ordinary Spanner for Coupling Bolt Nuts

" 1 Clawfoot Spanner for Valve Spindle Nut.

E.S. 2 Hand Hammers

" 6 Chisels (assorted)

B.D. 2 Coal Hammers

" 1 Sledge Hammer

E.S. 1 Copper Hammer

" 1 Lead Hammer

B.D. 2 Bench Leg Vices, 6 in. jaws (fitted to benches)

B.S. 4 Firing Slices, each 7'0" long

" 2 Sludging rakes, 1 - 7'0" long and 1 - 6'0" long

" 2 Prickers, each 7'0" long

B.D. 4 Firing Shovels.

E.S. 4 Packing Screws

" 4 Packing Tools

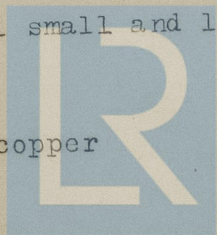
B.D. 2 Tube Brushes

B.S. 2 Tube Brush Handles

E.S. 2 Shifting Spanners (1 small and 1 large).

B.D. 2 Pairs of Pliers

B.D. 1 Salinometer jug of copper



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E.S. 8 Hook Hand Lamps
 B.D. 1 Metal Salinometer in wood case.
 " 1 Thermometer, in copper case.
 B.D. 1 Pair Tin Smith's Shears
 B.D. 1 Syringe
 B.D. 2 Galvanised water buckets
 D.O. 2 Ash Buckets, to sketch, sent to Boiler Shop
 B.D. 2 Quart Oil Cans
 " 4 Oil Feeders
 B.D. 1 Oil Filler
 " 2 Rat Tail Oil Cans and 2 Needle type Oil Cans
 " 1 Tallow Can
 E.S. 2 Savealls
 B.D. 2 Scouring Pans
 " 2 Step Ladders
 B.D. 3 - 3 gallon Oil ~~Pans~~ ^{CANS}.
 D.O. 1 Spanner to suit nuts on propeller shafting
 " 1 spanner to suit nuts on stern tubes
 B.D. 1 Engine Room Clock (8 day)
 " 1 Pair of Single Sheave Blocks for ashes, to take 2"
 Circ. manilla falls. Blocks to lift 4 cwt. and
 fitted with hooks and eyes.



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SHEET 3 OUTFIT & SPARE GEAR LIST

LIST OF SPARE GEAR.

D.O.	2 Propellers
D.O.	2 Stern Bushes (Bored out 1/4" less than full size)
D.O.	6 Coupling Bolts and Nuts
D.O.	2 Connecting Rod Bolts and Nuts
D.O.	2 Main Bearing Bolts and Nuts
D.O.	2 Piston Bolts
D.O.	2 Pairs connecting Rod Brasses (one each for H.P. & L.P.)
D.O.	50 Condenser Tubes
D.O.	100 " Ferrules
D.O.	20 Boiler Tubes, Iron (in rack)
B.S.	10 " " Stoppers (in rack)
D.O.	6 Stay Tubes and Nuts (in rack)
D.O.	1 Spare Armature for Dynamo.

MAIN FEED PUMPS

1 Set of Suction & Delivery Valves
1 Spring for Relief Valve.

MAIN FEED HEATER

1 Relief Valve Spring.

MAIN CIRCULATING PUMP

1 Relief Valve Spring.



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