

| ELECTRIC PROPULSION | PORT | STARBOARD |
|----------------------------------|------|-----------|
| GENERATORS | | |
| EXCITERS | | |
| AIR COOLERS | | |
| MOTORS | | |
| AIR COOLERS | | |
| CONTROL GEAR | | |
| INSULATION RESISTANCE | | |
| INSULATING OIL TEST | | |
| OVERSPEED GOVERNORS | | |
| MAGNETIC COUPLINGS & AIR CAPS | | |

MINIMUM NUMBER OF GENERATORS REQUIRED
FOR ESSENTIAL SERVICES

MOTOR SHIP SURVEYS

| PORT MAIN ENGINE | | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 | No. 9 | No. 10 | No. 11 | No. 12 |
|--|-------|-------|--------------|----------------------------|-------|--------------|-------|-------|----------------|-------|--------|--------|--------|
| CYLINDERS, PISTONS, RODS, VALVES & GEARS | | | | | | | | | | | | | |
| CONNECTING RODS, TOP ENDS & GUIDES | | | | | | | | | | | | | |
| CRANKPINS & BEARINGS | | | | | | | | | | | | | |
| JOURNALS & BEARINGS | | | | | | | | | | | | | |
| SCAVENGE PUMPS | | | | | | | | | | | | | |
| SCAVENGE BLOWERS | | | | COMPRESSORS ON MAIN ENGINE | | | | | COMPR. COOLERS | | | | |
| SUPERCHARGER | | | | CLUTCH OR COUPLING | | | | | GEARING | | | | |
| THRUST | | | | INTERMEDIATE SHAFTING | | | | | | | | | |
| HOLDING DOWN BOLTS & CHOCKS | | | | CRANKCASE RELIEF DEVICES | | | | | ENGINE TEST | | | | |
| MAIN ENGINE DRIVEN PUMPS | BILGE | | S.W. COOLING | | | F.W. COOLING | | | LUB. OIL | | FUEL | | |

AUXILIARY ELECTRICAL EQUIPMENT

| | |
|------------------|------------------------|
| GENERATORS | CABLES |
| MOTORS | INSULATION RESISTANCE |
| SWITCHBOARDS | STEERING |
| CIRCUIT BREAKERS | NAV. LIGHT. INDICATORS |

AUXILIARY ENGINES

| NUMBER & DESCRIPTION | Port Fwd. | Port Aft | Starb'd | Energy |
|--|-------------------------|----------|-------------|--------|
| 3 - 8 cyl - 300kw 1 - driving A/C | | | | |
| INDEPENDENT PUMPS FOR AUX. ENGINES | SW Aft - SW/FW FWD - | | FW cooler - | |

Name GLoucester

7E

| STARBOARD MAIN ENGINE | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 | No. 9 | No. 10 | No. 11 | No. 12 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| CYLINDERS, PISTONS, RODS, VALVES & GEARS | | | | | | | | | | | | |
| CONNECTING RODS, TOP ENDS & GUIDES | S | | | | | | | | | | | |
| CRANKPINS & BEARINGS | C | | | | | | | | | | | |
| JOURNALS & BEARINGS | | | | | | | | | | | | |

SCAVENGE PUMPS

(1)

| | | | | | |
|-----------------------------|------------------|---------------------------------------|-------------------------|---------------------------|------|
| SCAVENGE BLOWERS | | COMPRESSORS ON MAIN ENGINE | | COMPR. COOLERS | |
| SUPERCHARGER | | CLUTCH OR COUPLING | | GEARING | |
| THRUST | | INTERMEDIATE SHAFTING | | Detuner | |
| HOLDING DOWN BOLTS & CHOCKS | | CRANKCASE RELIEF DEVICES | | ENGINE TEST | |
| MAIN ENGINE DRIVEN PUMPS | BILGE | S.W. COOLING | F.W. COOLING | LUB. OIL | FUEL |

| | | | |
|-----------------------------|---------------------------------------|-------------------|-------------------------------|
| BILGE (1) | BALLAST (1) | FUEL TRANSFER (1) | FUEL PRIMING SURCHARGE (1) |
| S.W. COOLING (1) | F.W. COOLING (2) | LUB. OIL (2) | FUEL VALVE COOLING (2) |
| FEED (2) | GENERAL SERVICE (1) | F. W. COOLERS (2) | LUB. OIL COOLERS (1) |
| FORCED CIRCULATION PUMPS | OTHER PUMPS WITH BILGE CONNECTIONS | | |

| | | |
|---|-----------------------------------|--------------------------------|
| BILGE, BALLAST & O.F. LINES | EVAPORATOR SAFETY VALVES (1) | PROPELLERS SEA CONNECTIONS |
| OTHER PIPING ARRGTS. & FITTINGS | CONDENSER (1) | STEAM PIPES OVER 3" BORE |
| OIL FUEL TANKS | OIL BURNING SYSTEM Gravity | STARTING AIR PIPES |
| STEERING MACHINERY | WINDLASS | FIRE EXT. SYSTEM |
| INDEP. AIR COMPRESSORS 2 ED 1 em. | | COMPR. COOLERS 2020 |
| MAIN AIR RECEIVERS (2) | AUXILIARY AIR RECEIVERS (1) | Lloyd's Register Foundation |

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