

| 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 and Gears <sup>1-2</sup>   | 6/60.   | 6/60  | 6/60                         | 6.63<br>6.62   | 6.63<br>6.62   | 6/60.<br>6:59 | 2/61<br>6:59<br>11.61                   | 2/61<br>6:59                 | 2/61.<br>6:59<br>11.61 |        |        |        |
| Connecting Rods, Top ends and Guides <sup>3</sup>   | 4.63<br>6/60                                      | 6/60. | 2/61                         | 6.62   | 11.61  | 6.62          | 6:59                                    | 2/61.                        | 6:59                   |        |        |        |
| Crankpins and Bearings <sup>4</sup>   | 2/61  | 2/61. | 11.61                        | 6:59   | 6:59   | 6/60          | 6/60.                                   | 6.62                         | 6.62                   |        |        |        |
| Journals and Bearings <sup>5</sup>  | 6.62  | 6:59  | 11.61                        | 2/61   | 2/61.  | 6/60.         | 11.61                                   | 6.62                         | 6:59                   | 6/60   | 6/60.  |        |
| Compressors on Main Engine <sup>6-9</sup>   |   |       |                              |  |  |               |   | Compr. Coolers <sup>10</sup> |                        |        |        |        |
| Scavenge Pumps or Blowers <sup>11-16</sup>  | 3 all 6:59 No. 2 & 3 - 2/61.                      |       |                              |  |  |               |   |                              |                        |        |        |        |
| Supercharger <sup>17</sup>  | F2A 11.61   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Clutch or Hydraulic Coupling <sup>21</sup>  |   |       |                              |  |  |               | Gearing <sup>22</sup>                   |                              |                        |        |        |        |
| Magnetic Coupling <sup>7</sup>  |   |       |                              |  |  |               | Air Gap <sup>8</sup>                    |                              |                        |        |        |        |
| Thrust <sup>23</sup>  | 6.62  |       |                              | Intermediate Shafting <sup>24</sup> No. 1, 2 & 3 - 6:59 No. 4, 5, 6 & 7 - 6/60. No. 8 & 9 - 11.61 No. 10 & 11 - 11.61 No. 12 - 11.61 |  |               |   |                              |                        |        |        |        |
| Holding Down Bolts & Chocks <sup>25</sup>   | 6.62  |       |                              | Crankcase Relief Devices <sup>26</sup> 6.62 Engine Tested 6.62   |  |               |   |                              |                        |        |        |        |
| Main Engine Driven Pumps <sup>30</sup>  | Bilge (2) 6:59 + 2/61.                            |       | S.W. Cooling                 |  | F.W. Cooling   |               | Lub. Oil                                |                              | Fuel                   |        |        |        |
|   |   |       |                              |  |  |               |   |                              | Lub. Oil 6.62          |        |        |        |
| Independent Pumps <sup>37</sup>   | Bilge (1) 6/60.                                   |       | Ballast (1) 6.62             |  | Fuel Transfer (1) O.F. 6.62 D.O. 6.62                  |               | Fuel Service                            |                              |                        |        |        |        |
|   | Cooling (1) S.W. 6/60.                            |       | F.W. Cooling (1) 6:59 - 6.62 |  | Lub. Oil (2) S. Inboard 6:59 + 2/61. S. Outboard 6/60. |               | Fuel Valve Cooling P - 2/61. P - 6.62   |                              |                        |        |        |        |
|   | Port. Aux. S.W. - 6/60.                           |       | AUX (P) 6:59.                |  | F.W. Coolers <sup>45</sup> (1) 6.62                    |               | Lub. Oil Coolers <sup>39</sup> (1) 6.62 |                              |                        |        |        |        |
|   | Feed (2) P Inboard 6:59 S.W. Outboard 6/60. 11.61 |       | Cond. Circulating            |  |  |               |   |                              |                        |        |        |        |
|   | Bore Cnc. Out 6:59.                               |       |                              |  |  |               |   |                              |                        |        |        |        |
| Other Pumps having Bilge Connections G.S. (Lat) 11.61 12. Bore Air. Pumps   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Bilge, Ballast and O.F. Lines <sup>33</sup> 6.62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Other Piping Arrgts. and Fittings <sup>34</sup> 6.62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Condenser <sup>35</sup> 6.62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Evaporator <sup>42</sup> Safety Valves <sup>43</sup> 6.62   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Oil Fuel Tanks <sup>41</sup> S.A. Inboard O.F. Outboard 11.61 O.F. Outboard 6/62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Steering Machy. <sup>44</sup> 6.62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Windlass <sup>45</sup> 6.62   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Propellers and Sea Connections 6:59 6.62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Steam Pipes Over 3in. Bore (steel) 6.62   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Oil Burning Arrgts. 11.61 6.62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Fire Ext. Arrgts. <sup>46</sup> 6.62  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Comp. Coolers STEO Outboard - 6/60. S. IN - 2/61.   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Indep. Air Compressors <sup>38</sup> (4) 200 ED STEO Outboard - 6/60. S. IN - 2/61. 1. 100 ED 2. 100 ED 3. 100 ED 4. 100 ED |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Main Air Receivers <sup>39</sup> (2) 6.62 Outboard - 6/60.  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| Auxiliary Air Receivers <sup>40</sup> (1) P - 2/61.   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| AUXILIARY ENGINES   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| 3 - 230KW   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| P.A. Inboard 6.62   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| PORT FWD OUT 6:59   |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| PF Inboard 11.61  |   |       |                              |  |  |               |   |                              |                        |        |        |        |
| When Elect Equipment 6/62   |   |       |                              |  |  |               |   |                              |                        |        |        |        |



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