DISASSEMBLY

WARNING!
- Use hammer disassembly bench.
- Do not apply heat to any component.
- Use wrenches in good condition.

DISASSEMBLY SEQUENCE
1. Disassemble the hammer at the bit side
2. Extract the driver sub, bit retainer and bit
3. Rotate and loosen the hammer at the backhead side
4. Remove the backhead and remove its O-ring
5. Remove the check valve, spring, air regulator, air guide, cylinder and piston
6. Remove the piston guide

LUBRICATION

MAINTENANCE

OIL GRADE SELECTION (cSt)

<table>
<thead>
<tr>
<th>Work Pressure (psig)</th>
<th>Temperature</th>
<th>ISO GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 - 150</td>
<td>-20°C to 30°C</td>
<td>10 to 50</td>
</tr>
<tr>
<td>100 - 150</td>
<td>over 30°C</td>
<td>100 to 150</td>
</tr>
<tr>
<td>150 – 350</td>
<td>-20°C to 30°C</td>
<td>150 to 220</td>
</tr>
<tr>
<td>150 – 350</td>
<td>over 30°C</td>
<td>220 to 320</td>
</tr>
</tbody>
</table>

OIL CONSUMPTION L/h (q t/h)

Drilling

<table>
<thead>
<tr>
<th>WORK PRESSURE (psig)</th>
<th>Dry</th>
<th>With Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>0.5</td>
<td>0.8</td>
</tr>
<tr>
<td>200</td>
<td>0.7</td>
<td>1.1</td>
</tr>
<tr>
<td>250</td>
<td>0.9</td>
<td>1.4</td>
</tr>
<tr>
<td>300</td>
<td>2.0</td>
<td>2.7</td>
</tr>
</tbody>
</table>

MAINTENANCE PROGRAM

STANDARD MAINTENANCE PROGRAM

OPERATION CONDITIONS

- Stable, non-abrasive ground
- No water injection

INSPECT EVERY

- 200 (operating hours)

- Stable and abrasive ground
- With or without water injection

- 100 (operating hours)

- Unstable and abrasive ground
- With or without water injection

- 50 (operating hours)

COMPONENT INSPECTION AND REPAIR

- All components must be washed thoroughly with appropriate solvent, eliminating all accumulated dirt.
- Use sandpaper to smooth steel surfaces and friction marks, leaving all contact, sliding and threaded surfaces in good smooth condition.

PHOTOGRAPHS OF THE TREE

- photographer

PHOTOGRAPHS OF THE TREE

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- photographer