1. General Information

1.A Reason:
M&D description for overhaul and inspection of the MD-TJ42 engines.

1.B Subject:
Publication of the M&D overhaul (50 hours, 449 Cycles) and inspection (6 years) information for MD-TJ42 engines.

1.C Engines affected:
All MD-TJ42 engines.

1.D Concurrent SB and SL:
None.

1.E Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD</td>
<td>Airworthiness Directive</td>
</tr>
<tr>
<td>LLP</td>
<td>Life Limited Part</td>
</tr>
<tr>
<td>SB</td>
<td>Service Bulletin</td>
</tr>
<tr>
<td>TBO</td>
<td>Time Between Overhaul</td>
</tr>
<tr>
<td>TSO</td>
<td>Time Since Overhaul</td>
</tr>
<tr>
<td>TSR</td>
<td>Time Since Replacement</td>
</tr>
</tbody>
</table>

2. Description of Life Time for the MD-TJ42

2.A Airworthiness Limitations for MD-TJ42
The following section describes the airworthiness limitations of the engine MD-TJ42.

The airworthiness limitations section as part of the Operating and Maintenance Manual (OMM) is approved by the European Aviation Safety Agency (EASA) in accordance with Part 21.A.31(a)(3).

Critical parts which are subject to low cycle fatigue are listed in the following table with their maximal number of cycles.

<table>
<thead>
<tr>
<th>LLP</th>
<th>Part Number</th>
<th>Maximal Cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine Wheel</td>
<td>MD02-72-50-08</td>
<td>449</td>
</tr>
<tr>
<td>Compressor Wheel</td>
<td>MD02-72-30-01</td>
<td>449</td>
</tr>
</tbody>
</table>

Once the life limit is reached, the life limited parts (LLPs) have to be changed.
2.B **Time between Overhaul and Time between Inspection**

The operating times according to cycles, hours and years (whichever comes first is the limiting time) listed in table below shall not be exceeded. If the operating time is reached the engine has to be sent to M&D or an approved maintenance organisation for overhaul or inspection.

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Time Between Overhaul</th>
<th>Time between Inspection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cycles</td>
<td>Hours</td>
</tr>
<tr>
<td>MD-TJ42</td>
<td>449</td>
<td>50</td>
</tr>
</tbody>
</table>

**Note:** The ECU has to send together with the engine in case of an overhaul.

2.C **50 hours or 449 Cycles Overhaul**

When the engine reached 50 hours or 449 cycles (whichever comes first) an overhaul of the engine has to be done. The overhaul includes a visual inspection and a replacement of various components.

The LLPs have to be replaced in any case:
- Turbine wheel
- Compressor wheel

2.D **6 Years inspection**

When the engine reaches 6 years after last inspection or overhaul respectively the manufacturing date a visual inspection of all parts will be carried out by an approved maintenance organization.

2.E **After Overhaul or Inspection**

After the engine was overhauled or inspected it will be delivered back with all necessary documents to the customer. The cycles, hours and years will be reset as follows:

*After the 50 hours or 449 Cycles overhaul:*
- Zero hours since overhaul
- Zero cycles since overhaul
- Restart of the 6 years interval

*After the 6 years inspection:*
- Restart of the 6 years interval

2.F **Loaner Engine**

As a service for our customers it is possible to get a loaner engine from stock (subject to availability), if the engine has to be overhauled during the racing season.
3. **Prices**

M&D reserves the right to change the pricing without prior notice.

3.A **Overhaul (50 hours or 449 cycles)**

On request.

3.B **Inspection (6 years)**

750,- € (without VAT)

3.C **Loaner Engine**

12,- € per cycle (without VAT)

**Note:** Not included in the above mentioned prices are:
- Shipping costs
- Any defects found during the inspection / overhaul which needs to be fixed
- The accomplishment of applicable AD’s and / or mandatory SB’s