MACHINERY AND EQUIPMENT SYSTEMS
Problem Solving/Skill

Instructions:
You will have 15 minutes to do this exercise. Using the sections from the owner’s manual, and your knowledge of tractors, answer the following questions.

I. What are the last five digits of: 2 pts.
   a) Tractor Product Identification Number ___________________
   b) Engine Serial Number ______________________

II. Identify by proper name the machine component or describe its function as specifically as possible 10 pts.
   a) ____________________________ f) ____________________________
   b) ____________________________ g) ____________________________
   c) ____________________________ h) ____________________________
   d) ____________________________ i) ____________________________
   e) ____________________________ j) ____________________________

III. After the break-in period, what are the service intervals (number of hours) for the following: 6 pts.
   Assume generic (not company) oil and oil filter and “normal” (not severe) operating conditions
   a) engine oil __________ e) primary air cleaner __________
   b) wheel lug nut torque __________ f) hydraulic oil __________
   c) fuel filter __________ g) engine oil filter __________

IV. This tractor has an IVT transmission. What do the letters stand for? I________ V________ T__________ 2 pts.

V. What is the average weight of the tractor? ____________lb 4 pts.
   What is the engine size (displacement)? ____________ cu. in.
   What is the maximum pressure and output of the hydraulic system? ____________ psi _____________gal/min

Evaluation Score Sheet

<table>
<thead>
<tr>
<th>Items</th>
<th>Points Possible</th>
<th>Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN, ESN</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Part Identification/Function</td>
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<td></td>
</tr>
<tr>
<td>Service Intervals</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>IVT</td>
<td>2</td>
<td></td>
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<tr>
<td>Specifications</td>
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</tr>
<tr>
<td>Safety</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>25</strong></td>
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