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:
   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
   Name
   a) ________
   b) ________
   c) ________
   d) ________
   e) ________
   f) ________
   g) ________
   h) ________
   i) ________
   j) ________

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

IV. This tractor has an IVT transmission. What do the letters stand for? ____________

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

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**Evaluation Score Sheet**

<table>
<thead>
<tr>
<th>Items</th>
<th>Points Possible</th>
<th>Earned</th>
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<td>PIN, ESN</td>
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<td>Part Identification/Function</td>
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<tr>
<td>Service Intervals</td>
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