

**TRACTOR CHECK SHEET 1  
MECHANICAL & AUTHENTICITY EVALUATION  
SAN ANTONIO STOCK SHOW & RODEO**

Judge \_\_\_\_\_ Date \_\_\_\_\_

**Class** \_\_\_\_\_ **TRACTOR** \_\_\_\_\_

ENTRY ID. \_\_\_\_\_ Mechanical Pts. \_\_\_\_\_ / 40      Authenticity Pts \_\_\_\_\_ /10

<b>SYSTEM</b>	<b>Points</b>	<b>COMMENTS</b>
<p><b><u>Driving/Observations</u> – ____ /6 pts</b> Proper governor control. Tire inflation. Clutch and Brake operation. Listen for abnormal sounds. In addition to components evaluation when driving contestant may be instructed to demonstrate basic driving skills. Skills may include: starting, shifting gears, engaging PTO, hydraulic lifts, and turning on/off lights. Driving and backing tractor into a designated area, braking tractor and turning engine off and securing tractor in a safe mode prior to dismounting.</p>		<p>Preliminary Driving Check List      Notes</p> <ul style="list-style-type: none"> <li>• __ Safe Driving</li> <li>• __ Governor and Idle Speed</li> <li>• __ Clutch</li> <li>• __ Brakes</li> <li>• __ PTO</li> <li>• __ Hydraulic Lift</li> <li>• __ Steering System</li> <li>• __ Power Train Functions</li> <li>• __ Abnormal noise / smoke etc.</li> <li>• __ Fluid Levels - coolant, lub, trans, hyd .</li> <li>• __ Fluid Leaks</li> <li>• __ Air Filter (oil level if oil bath)</li> <li>• __ Lights</li> </ul>
<p><b><u>Electrical</u> – ____ /4 pts</b> To include lights, charging, cranking and ignition (magneto or distributor) systems including instrument panel and other controls and switches. All gauges must function properly and have correct colored faces with original fonts.</p>		<p>Wiring Diagram of tractors having generator and starter should be included in Documentation.</p> <p>Descriptions or pictures of checks (tests) made on electrical system, starter, generator, distributor or magneto, spark plugs and cutout relay should be provided in documentation.</p>
<p><b><u>PTO / lift / hydraulics-</u> ____ /4 pts</b> All must function properly. Fluids checked for proper level and cleanness. No signs of leaks.</p>		<p>Tractors without hydraulics/PTO will have these 4 points added to the Engine points (8 + 4 = 12 points)</p> <p>Work or tests made on hydraulics including pumps should be identified in documentation. If tractor was tested on a PTO dynamometer identify procedure and results.</p>
<p><b><u>Clutch</u> – ____ /4 pts</b> Will be evaluated when driving tractor and by engaging clutch with tractor in a low gear and brakes applied. Clutch free travel checked. Clutch disk, Throw out and Pilot bearings should have been replaced for 4 pts.</p>		<p>For tractors with automatic transmissions (power-train without a clutch) these 4 points added to the Transmission points (4 + 4 = 8 points)</p> <p>There should be pictures of clutch work with exhibitor in picture to validate work done.</p>
<p><b><u>Brakes</u> – ____ /3 pts</b> Will be evaluated when driving and when evaluating clutch. Brakes on both wheels checked.</p>		<p>Brake work and adjustments should be explained with pictures included.</p>
<p><b><u>Steering</u> - ____ /3 pts</b> Steering will be evaluated with tractor static and driving. Front wheel toe-in, camber, and tracking will be evaluated.</p>		

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<b>SYSTEM</b>	<b>EVAL</b>	<b>COMMENTS</b>
<p><b>Engine</b> – _____ /8 pts. For 7 to 8 pts, it should have been disassembled, analyzed and new parts needed and gaskets and/or seals installed. Check Sub systems including: Lubricant and coolant levels, air filters and air intake, fuel, and exhaust. No signs of leaks. Any mechanical work, performed by others such as valve jobs should be identified in mechanics report with invoices in expense accounts. Any work done for no charge should be identified as (OC) opportunity costs in expenses report.</p>		<p>Pictures with exhibitor in them should be in the documentation illustrating engine work being done. Measuring crank journals, cylinder taper and out of round, piston fit and ring end gap are examples. Pictures of head work including valves, valve train and valve guides are additional example of mechanical work to be validated with pictures. Activities shown in pictures should be identified with label on each picture.</p>
<p><b>Transmission</b> – _____ /4 pts. For 3 to 4 pts must have been inspected and new gaskets and/or seals installed. Check Transmission lubricant level. No signs of leaks. Transmission to be put in different gears when driving for evaluation.</p>		<p>Documentation should include pictures of inside transmission or disassembled with student analyzing components. See comments on final drive below.</p>
<p><b>Final Drive</b> – _____ /4 pts For 3 to 4 pts must have been inspected and new gaskets and/or seals installed. Lubricant level checked. No signs of leaks.</p>		<p>Pictures of inside differential and final drive should be included with labels of what is being evaluated. Gear teeth condition, gear backlash, end play should be inspected and measured. Bearings should be evaluated.</p>
<p><b>Safety</b> – Will be evaluated under Safety Equipment found on Tractor Evaluation Sheet. Driving safety is evaluated during the unloading and driving process</p>		
<p><b>Authentic</b> _____ /10 pts Tractor to be as original as possible. Items to be considered but are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Paint and paint Color (Clear coating is not recommended) Do not chrome parts that were not originally chromed</li> <li>• Fasteners</li> <li>• Electrical Systems - incl. gauges</li> <li>• Fuel, exhaust and mechanical systems</li> <li>• Safety shields and equipment</li> <li>• Decals</li> </ul> <p>Original unaltered serial plates – part numbers should be compatible with serial number. Use of original restored parts is desirable over after market parts – seats, steering wheels, gauges, sheet metal – hoods, grills.</p>		<p>Exceptions allowed from original factory painting schemes. (These are left to discretion of exhibitor.)</p> <ul style="list-style-type: none"> <li>• Manifolds and exhaust may be painted or coated with high temp black paint.</li> <li>• All rubber, including hoses, belts, electrical wires and wiring harnesses may be left unpainted realizing they probably were originally painted at factory.</li> <li>• Magnetos, distributors, starters, generators may be painted black or in case of magnetos or distributors may be left unpainted.</li> <li>• Non rust surfaces – aluminum, or zinc coated including insulated surfaces may be left natural or uncoated.</li> </ul> <p>See Addition Links on WEB site for recommendations regarding John Deere Green paint.</p>