## Start-up & Shut Down Procedures: Wheel Loaders

<table>
<thead>
<tr>
<th>Was procedure step completed properly?</th>
<th>Evaluator Comments</th>
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<tbody>
<tr>
<td>For more information, please refer to the Operation and Maintenance Manual or any other applicable manuals and instructions for this product. If you have questions, please contact your local Caterpillar dealer.</td>
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</tbody>
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### STARTING THE MACHINE
- Perform walk around inspection
- Mount the machine using 3 points of contact
- Turn the battery disconnect switch to ON (if equipped)
- Engage the parking brake
- Adjust seat, adjust mirrors, fasten seat belt
- Move direction control lever into neutral
- Ensure all implements are grounded
- Move the attachment control levers to HOLD
- Ensure all personnel are clear of machine
- Sound horn
- Use ether start aid switch if necessary (per OMM)
- Turn key start switch to ON
- Perform startup test or observe monitoring system self-test (if applicable)
- Turn key start switch to START. Crank engine

### MACHINE WARM UP
- Allow machine to warm up (per OMM)
- Engage and disengage attachment controls to help speed warm-up of hydraulic components
- Cycle all controls to allow warm oil to circulate through all hydraulic cylinders and lines
- Perform steering, service brake, and parking brake operation checks (per OMM by machine model)
- Check secondary steering operation (if equipped)
- Check gauges, indicators, and action light frequently

### MOVING THE MACHINE
- Ensure area is clear
- Raise all lowered implements
- Depress service brake pedal
- Release the parking brake
- Move transmission control lever to desired direction
- Release service brake pedal and depress accelerator pedal

### MACHINE SHUT DOWN
- Park the machine on smooth level area
- Set parking brake
- Lower all hydraulic implements
- Run engine at low idle for 5 minutes to allow engine to cool
- Turn key start switch to OFF and remove key
- Dismount machine using 3-point contact
- Drain water from air tank, if equipped
- Conduct post-operation walk-around inspection
- Block wheels and remove disconnect switch key if parking for extended period (per OMM)