

**Audit guide  
CONCRETE PUMPS**

Legal name: ..... Trading name: .....

ABN ..... Address: .....

Auditor: ..... Auditee: ..... Date: .....

Pump make and model ..... Build date .....

Mobile boom

Satellite boom

Line pump

1. Documentation and Procedures	Y	N	NA	Observations
1. Is there a log book?				
2. Is it maintained and kept up to date?				
a) Does it show daily pre-operational inspections?				
b) Does it show routine maintenance inspections?				
c) Does it show annual inspections?				
d) Is the assessment for service (six yearly major) current?				
e) Has pipe thickness testing been performed regularly?				
3. Is there an operator's manual? This should include set up procedures, operating instructions and maintenance procedures.				
4. Has the operator received appropriate information, instruction and training for this particular pump?				
5. Has the line hand received the same inductions?				
6. Is any of this information documented?				
7. Does the pump have any current notices?				
8. If it is a mobile boom pump, does it have current plant registration?				
9. Does the operator hold a current ticket for the operation of a mobile concrete placing boom?				
10. Does the truck have a Queensland Modification Plate (Blue Plate) fitted? This is usually fixed to the inside of either door.				
11. Is the operator aware of exclusion zones for electrical conductors? Ask them for an example of an exclusion zone.				

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<p>12. Is there a work method statement? If the answer to Q 8 and 9 is <b>N</b>, then potentially an infringement notice and a prohibition notice can be issued for either. Q 10 is a Queensland Transport requirement and if there is no Blue Plate fitted, then the pump module may not have been fitted by a competent person – Queensland Transport may be notified. It is up to the inspector to issue notices for all other <b>N</b> answers.</p>				
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<b>2. Condition and Operation</b>	<b>Y</b>	<b>N</b>	<b>NA</b>	<b>Observations</b>
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<p>1. Are warning and operational signs fitted?</p> <p>2. Is there a horn/warning device fitted that can be functioned from the ground near the hopper area?</p> <p>3. Are there easily accessible emergency stops fitted?</p> <p>4. Is there easy, safe access onto the pump?</p> <p>5. Are there any slip, trip or protrusion hazards?</p> <p>6. Do the air reservoir tanks have a pressure gauge fitted?</p> <p>7. Is there a blow off or safety valve fitted on the tanks?</p> <p>8. Is there an indication that the module mounting bolts are loose or missing?</p> <p>9. Are there any visible cracks in the chassis or module?</p> <p>10. Are all controls for the boom and outrigger operation clearly marked and functional?</p> <p>11. Are all pressure gauges and controls clearly marked and functional on the control panel?</p> <p>12. Are safety chains fitted to the drop hose and reducer?</p> <p>13. Does the drop hose comply with the pump manufacturers' specifications? This will be stated by the manufacturer and should be clearly marked at the end of the boom. Maximum drop hose length is usually 4 m for 125 mm diameter hose.</p> <p>14. Are all retaining clips fitted to all quick release pipe clamps?</p> <p>15. Do the clamps appear to be in good condition?</p>				
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| <p>16. Are the clamps marked with their maximum operating pressure?</p> <p>17. Are high pressure clamps used at the hopper end?</p> <p>18. Does the pipeline appear to be in good condition?</p> <p>19. Look for dents and pinholes that may be leaking slurry, especially in reducers.</p> <p>20. Are all rubber delivery hoses in good condition?</p> <p>21. Are there any visible cracks in the boom?<br/>This will be hard to determine with the boom operating.</p> <p>22. Are there any signs that any boom pins are worn or are there any missing retainers or keepers?</p> <p>23. Are there any visible oil leaks?</p> <p>24. Are there any damaged hydraulic hoses?</p> <p>25. Are there any fans, shafts, pulleys or gears unguarded?</p> <p>26. Are the stabiliser legs/outriggers in good condition?<br/>Look at the foot pads, pins, check valves and hoses.<br/>Look for any noticeable damage or wear. Ensure that the outriggers are locked in when extended.</p> <p>27. Are pads/timbers provided under outrigger feet?</p> <p>28. Can the outriggers be securely locked in place when the pump is in travel mode?</p> <p>29. If short legging is used does the manufacturer allow this and is there a documented procedure?</p> <p>30. If there is a risk of collision with the boom, is there a procedure to help prevent this?</p> <p>31. Is there a hopper grill in place and does it provide adequate protection from all moving parts (gap <math>\leq 75</math> mm)?</p> <p>32. Do the agitator paddles and valve system stop when the hopper grill is lifted?</p> <p>33. Does the accumulator drop all pressure when the grill is lifted?</p> |  |  |  |  |
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<p>34. Does the accumulator drop all pressure when the engine is turned off?</p> <p>35. If compressed air is used for cleaning out the lines, is there a system to indicate when the line is pressurised?</p> <p>36. Is the dump valve on the blow out head twice the size as the inlet valve?</p> <p>37. Are controls in place to prevent the sponge ball from becoming a dangerous projectile? The use of compressed air for cleaning lines can be extremely dangerous. Never blow out through a rubber delivery hose. The hose can whip as the ball ejects. There are other means of cleaning out hoses. Ask the operator how they do this.</p> <p>38. Is there suitable personal protective equipment provided and worn by the operator and the line hand?</p> <p>39. Is a sufficient, hygienic first aid kit provided? This should include eyewash.</p> <p>40. Is traffic management being conducted in a safe manner?</p>				
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