**Sprayer Information**

Make: Model: Year of Manufacture:

Serial Number: Vehicle Registration Number: Sprayer Type:   
Boom Width: Tank Capacity: Hectares/Hours Used:

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| --- | --- | --- | --- | --- | --- |
| Requirement | N/A | Thumbs up sign | Right pointing backhand index | Action Required | Date  Completed |
| 1. Are all Guards Including PTO Guards complete, secure and functional? |  |  |  |  |  |
| 2. Is Chassis and structure free from cracks and rust? |  |  |  |  |  |
| 3 Are mounting points secure – tray tops, front tanks and self-propelled? |  |  |  |  |  |
| 4. Are hitch points and draw bar secure – mounted and trailed? |  |  |  |  |  |
| 5. Are wheels and tyres in good condition? |  |  |  |  |  |
| 6. Are pressure gauges legible with appropriate scale and graduations? |  |  |  |  |  |
| 7. Is the tank contents gauge legible with a graduated scale? |  |  |  |  |  |
| 8. Are operating labels and safety labels complete and legible? |  |  |  |  |  |
| 9. Are induction system control labels complete and legible? |  |  |  |  |  |
| 10. Is clothing locker clean and used for purpose? |  |  |  |  |  |
| 11. Is there a first aid kit readily accessible? |  |  |  |  |  |
| 12. Is clean water available for personal hygiene? |  |  |  |  |  |
| 13. Is the Sprayer and all connections free from leaks – standing and with pressure? |  |  |  |  |  |
| 14. Are hoses in good condition? |  |  |  |  |  |
| 15. Is hydraulic system free from leaks? |  |  |  |  |  |
| 16. Is pneumatic system free from leaks? |  |  |  |  |  |
| 17. Is boom suspension functioning and does it return to level? |  |  |  |  |  |
| 18. Are boom mounting points and linkages working properly – no yaw? |  |  |  |  |  |
| 19. Are boom break-backs working correctly? |  |  |  |  |  |
| 20. Is the boom straight – longitudinally and horizontally? |  |  |  |  |  |
| 21. Are nozzles correctly spaced and all at the same height? |  |  |  |  |  |
| 22. Is the boom free from leaks – above normal working pressure – spraying? |  |  |  |  |  |
| 23. Is the boom free from leaks – above normal working pressure – not spraying? |  |  |  |  |  |
| 24. Is Master Control working correctly – on/off? |  |  |  |  |  |
| 25. Is the boom section controller working correctly – on/off? |  |  |  |  |  |
| 26. Are the Directional Control Valves (DCV) working correctly – no drips? |  |  |  |  |  |
| 27. Is pressure consistent when boom sections shut off? |  |  |  |  |  |
| 28. Are all spray patterns unobstructed? |  |  |  |  |  |
| 29. Is pressure stable and adjustable? |  |  |  |  |  |
| 30. Is tank lid intact, secure with seal intact and strainer fitted if applicable? |  |  |  |  |  |
| 31. Is tank agitator functioning with largest set of nozzle sprays? |  |  |  |  |  |
| 32. Is chemical induction system working and free form leaks? |  |  |  |  |  |
| 33. Is the induction rinse system and container rinse working? |  |  |  |  |  |
| 34. Is the main sprayer tank rinse system working? |  |  |  |  |  |
| 35. Is pressure uniform across boom – Please upload a copy of your pressure test |  |  |  |  |  |
| 36. Are nozzle flow rates correct – Please upload a copy of nozzle flow rate test |  |  |  |  |  |
| 37. Does the flow rate displayed on the controller match the total output recorded in the nozzle flow test? |  |  |  |  |  |
| 38. Are filters in good condition and compatible with nozzles fitted? |  |  |  |  |  |
| 39. Are section flush taps fitted and working? |  |  |  |  |  |
| 40. Is boom transport position correct and secure? |  |  |  |  |  |
| 41. Does tank emptying device allow for safe disposal? |  |  |  |  |  |
| 42. Is forward speed accurate on electronic controller? |  |  |  |  |  |
| 43. Are lights and indicators working correctly? |  |  |  |  |  |
| 44. Are hydraulic hoses in good condition? |  |  |  |  |  |
| 45. Are pneumatic hoses in good condition? |  |  |  |  |  |
| 46. Is electrical wiring in good condition? |  |  |  |  |  |
| 47. Is power unit functioning correctly – leaks and levels (oil/fuel/water} |  |  |  |  |  |

Pressure and Flow Tests

Date of Test: Number of Sections on Boom:

Machine Gauge Pressure: Average of Pressure Test:

Average of Nozzle Flow Rate Test:

Instructions

It is preferable to test every nozzle however it is acceptable to test only 25% of nozzles evenly across the boom.

Nozzle Position is the nozzle number. Numbering starts from the nozzle on the left tip with you facing in the direction of the booms travel.

Boom pressure can be read by replacing a nozzle with a pressure gauge. Your farm machinery reseller will stock nozzle caps that have a ¼” BSP thread instead of a nozzle outlet, which you can screw a pressure gauge into.

To measure nozzle flow rate, using clean water place a measuring jug under a nozzle operating at a constant pressure and hold for one minute. Record the volume.

Pass/Fail. If a nozzles pressure or flow rate is within 10% + or - of the average then that nozzle is a Pass.

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| Nozzle Position | Boom Pressure | Nozzle Flow Rate | PASS/FAIL |
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| |  | | --- | | Nozzle Position  Boom Pressure  Nozzle Flow Rate | | Boom Pressure | Nozzle Flow Rate | Pass/Fail |
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| Number of Nozzles Tested = |  | Total Volume = |  |

Average of Flow Rate Test = Total Volume ÷ Number of Nozzles Tested