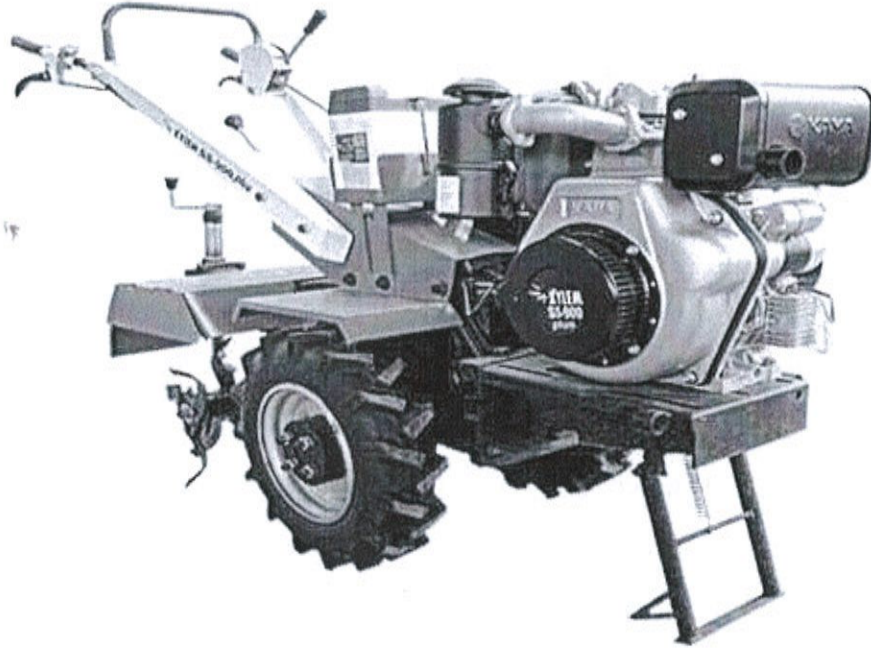


व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT
(ICT)

संख्या/No: Machine-507/1524
माह/Month: July, 2023
Validity: 30.06.2028



XYLEM SS 900 PLUS POWER WEEDER



सत्यमेव जयते

भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि एवं किसान कल्याण विभाग

Department of Agriculture and Farmers Welfare

दक्षिणी क्षेत्र कृषि प्रशिक्षण एवं परीक्षण संस्थान

Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

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E-mail: fmti-sr@nic.in

Tele: 08551-286441

Machine-507/1524	XYLEM SS 900 PLUS POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Shivashakthi Xylem crop science private Ltd., 117/2, Railway station Road, Ayothiapattanam, Salem-636103, Tamil Nadu India

Applicant : M/s. Shivashakthi Xylem crop science private Ltd., 117/2, Railway station Road, Ayothiapattanam, Salem-636103, Tamil Nadu India



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Machine- 507/1524	XYLEM SS 900 PLUS POWER WEEDER	COMMERCIAL (ICT)
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16.3 Transmission gears:
All the gears of the transmission system were found in normal condition.

16.4 Rotary drive unit:
The rotary drive unit was dismantled and all the components were found in normal condition.

17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

17.1.1 The maximum and rated power was observed as 6.2 kW under natural ambient condition against the declared value of 5.8kW.

17.1.2 Specific fuel consumption of engine corresponding to maximum power and at rated engine speed was recorded as 301g/kWh against the declared value of 320/kWh.

17.1.3 Back up torque of engine was observed as 8.53%.against declared value of 10%. This should be looked into for corrective action.

17.1.4 Max. torque was observed as 17.81 Nm against the declared value of 18 Nm.

17.2 Max. Noise at operator's ear level was observed as 96.2dB (A), which appears to be on higher side. As the Sound Pressure level is directly influencing the Human/Operator's Health, Safety and Comfort; and therefore suitable corrective action may be taken up.

17.3 The amplitude of mechanical vibration on various assemblies of the Power Weeder was observed to the extent of 327micron, which is on higher side . In view of the above, this should be given top priority for corrective action.

17.4 The hardness of rotor blades does not confirm against the requirement of $56 \pm 3\text{HRC}$. This maybe looked into for corrective action.



17.5 Chemical composition of rotor blades does not meet the requirement of relevant code. Therefore this may be looked into for corrective action.

Machine-507/1524	XYLEM SS 900 PLUS POWER WEEDER	COMMERCIAL (ICT)
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17.6 Technical literature:

User's manual & parts catalogue are provided for reference during the test. It is, however recommended that same must be revised and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel in booklet form.

TESTING AUTHORITY

D.C.MOULI AGRICULTURAL ENGINEER	
P. KAMALABAI SENIOR AGRICULTURAL ENGINEER/DIRECTOR(I/C)	

18. Applicants Comments

Para No	Our reference	Applicant's comments
17.1	17.1.1,17.1.2, 17.1.3,17.1.4	We Will be corrected as per requirement by sending comments to principle manufacture.
17.1	17.2	We are working on reduction of noise levels with the various level as per standard.
17.1	17.3	We are working on reduction of vibration levels with the various level as per standard.
17.1	17.4,17.5	We will replace the blade in free of cost after wear. we will inform to my supplier for better Hardness and chemical composition of rotary Blades as per IS 6690.1981.