

व्यावसायिकपरीक्षणरिपोर्ट (प्रारंभिक)

संख्या/No: Machine-508/1526

COMMERCIAL TEST REPORT

माह:/Month: July, 2023

(INITIAL)

Valid Upto 30.06.2028

THIS REPORT IS VALID UPTO 30.06.2028



XYLEM SS-30 BRUSH CUTTER



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.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

Tele. 08551-286441

Machine- 508/1526	XYLEM SS-30 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT VALID UPTO: 30.06.2028	

Name of Manufacturer : M/s. Shivashakthi Xylem crop science private Ltd.,
117/2, Railway station Street, Ayothiyapattanam,
Salem-636103, Tamil Nadu, **India.**

Name of Applicant : The Manufacturer

XYLEM SS-30 BRUSH CUTTER

Report No.: **Machine-508/1526**

Month: **July**

Year: **2023**



सत्यमेव जयते

Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
[An ISO 9001:2015 CERTIFIED INSTITUTE]

Telephone: 08551-286441

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

**SOUTHERN REGION FARM MACHINERY TRAINING &
TESTING INSTITUTE, ANANTAPUR, (A.P.)**

Page 2 of 24

Machine- 508/1526	XYLEM SS-30 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT VALID UPTO: 30.06.2028	

Ring end gap:

Rings	Ring end gap, (mm)			Max. permissible end gap limit, (mm)
	Top	Middle	Bottom	
1 st comp. Ring	0.12	0.10	NA	1.20
2 nd comp. Ring	0.12	0.10		
Oil Ring	NA	NA		NA

Ring side clearance:

Rings	Ring side clearance, (mm)	Max. permissible clearance limit, (mm)
1 st Compression ring	0.04	0.30
2 nd Compression ring	0.05	
Oil Ring	NA	NA

Main and Big end bearings:

Main bearings:

Bearing No.	Type of bearings	Diametrical clearance, (mm)	Crankshaft end float, (mm)	Max. permissible clearance limit, (mm)	
				Diametrical clearance	Crankshaft end float
1.	Ball bearing	NA	0.12	NA	0.45
2.	Ball bearing	NA			

All the gears of the transmission system were found in normal working condition.



16. COMMENTS & RECOMMENDATIONS

- 16.1** The safety provisions, as mentioned at Para 5.14, have been provided to the applicant for safety aspect of operators.
- 16.2** The equivalent mechanical vibration on engine cover was observed to the extent of 392 micron. This should be looked into for dampening the vibration.
- 16.3** A fuel on/off knob may be considered for providing in the fuel system engine.

Machine- 508/1526	XYLEM SS-30 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT VALID UPTO: 30.06.2028	

- 6.4 The hardness of blades do not conform to the requirement of IS 6690:1981 (Reaffirmed: 2017). This should be looked into for corrective action.
- 6.5 The chemical composition of square blade were not as per requirement of the relevant code IS 6025:1982 (Reaffirmed: 2019) & therefore it should be looked into for the corrective action.
- 6.6 The provided labeling plate should be as per the requirement of the IS. Engine serial no and make , model of engine should be given with embossing on engine body instead of sticker during production level
- 6.7 **Adequacy of literature supplied with the machine:**
The User's manual and spare parts list of brush cutter and engine in English were supplied with the brush cutter for reference during the test. It is however, recommended that same may be revised and brought out as per IS: 8132- 1999 (Reaffirmed:2019) for the sake of user & technical personnel.

TESTING AUTHORITY

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

17. APPLICANT'S COMMENTS:

Para No.	Our Reference	Applicant's Comments
16.1	16.1,16.2,16.3, 16.4,16.5,16.6	I have gone through all your valuable comments and we will be rectifying in our future products.