

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच)

संख्या/No: Machine- 545/1589

COMMERCIAL TEST REPORT (1st batch)

माह/Month: February , 2024

THIS TEST REPORT IS VALID UPTO 31.01.2033



TEXAS, LILLI 832TG POWER WEEDER



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 मशीनरी 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-545/1589	TEXAS, LILLI 832 TG POWER WEEDER COMMERCIAL (1st Batch)
	THIS TEST REPORT IS VALID UPTO 31.01.2033

Manufacturer : Texas A/S,
Knullen 22, DK-5260,
Odense S, **Denmark.**

Applicant : M/S. Farm and Garden Technologies Pvt.
Ltd., (Subsidiary unit of TEXAS A/S
Denmark), #210, II floor, Vipul Agora, MG
Road, Sector-28 , Gurugram -
122001(Haryana)

TEXAS, LILLI 832TG POWER WEEDER

Report No. : **Machine-545/1589**

Month: February

Year: 2024



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

E-mail: fmti-sr@nic.in

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



**TEXAS LILLI 832 TG POWER WEEDER
COMMERCIAL (1st Batch)**

THIS TEST REPORT IS VALID UPTO 31.01.2033

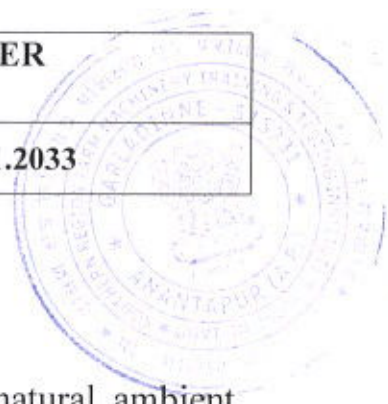
Type of test : COMMERCIAL (1st Batch test)
 Period of test : 03.10.2023 to 15.01.2024
 Test Report No. : **Machine-545/1589**
 Month / Year of release : February ,2024

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The data given in this report pertain to the particular machine randomly selected by testing authority at applicant site.
- iii) The results presented in this report do not in any way attribute to the durability of the machine.
- iv) This Test Report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is the first batch test report and therefore, should be read in conjunction with the test report model i.e. "TEXAS, LILLI 832TG POWER WEEDER" which was test under Initial commercial testing vide test report no. Machine-250/903 released in September, 2018. **This test report is valid up to 31.01.2033 Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023**

SELECTED CONVERSIONS

S. No.	Units	Conversion Factor
1	Force	
	1 kgf	9.80665 N
		2.20462 lbf
2	Power	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	Pressure	
	1 psi	6.895 kPa
	1 kgf/cm ²	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm ²
	1 mm of Hg	1.3332 m-bar

Machine- 545/1589	TEXAS LILLI 832 TG POWER WEEDER COMMERCIAL (1st Batch)
	THIS TEST REPORT IS VALID UPTO 31.01.2033



17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

- 17.1.1 The maximum power was observed as 4.53 kW under natural ambient condition against the declared value of 5.0 kW respectively.
- 17.1.2 Back up torque of engine was observed as 8.95% against the declared value of 8.36%.
- 17.1.3 Specific fuel consumption of engine corresponding to maximum power and at rated engine speed was recorded as 316 g/kWh against the declared value of 282 g/kWh.
- 17.1.4 Maximum torque was observed as 14.24 Nm against the declared value of 15.17 Nm.

17.2 The amplitude of mechanical vibration on most of the assemblies of the Power weeder was observed as higher side and to the extent of maximum 180 microns, which is directly concerned with Operator's Health, Safety and Comfort. Besides, it also adversely affects the useful life of the components. In view of the above, this should be taken care for corrective action.

17.3 Carbon and Manganese chemical composition of rotor blade are not conforming the requirement of IS 6690:1981 (Reaffirmed 2012).




17.4 Most of the parameters mentioned on labeling plate are not as per IS requirement.

17.5 Technical literature:

The Instruction manual of engine and operation manual cum spare parts list of power weeder were supplied with the test sample for reference during the test. It is however, recommended that same may be revised and bought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

Machine- 545/1589	TEXAS LILLI 832 TG POWER WEEDER COMMERCIAL (1 st Batch)
	THIS TEST REPORT IS VALID UPTO 31.01.2033

TESTING AUTHORITY:

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. D.C. MOULI AGRICULTURAL ENGINEER
 Dr. B.M NANDEDE DIRECTOR	

18 APPLICANT'S COMMENTS

S.No.	Para No.	Comments
1	17.2	Will take corrective action to reduce the mechanical vibration.
2	17.3	Will take necessary action to meet the chemicals composition of rotor blades according to IS.
3	17.4	Will take necessary action to meet the parameters of the labeling plate according to IS.
4	17.5	Will bring the instruction manuals in the Hindi & regional languages also.