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

संख्या / No: Machine-370/1194

माह/Month: August, 2020

Validity: 31.07.2025



TEXAS LILLI 632 TG POWER WEEDER



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय Ministry of Agriculture and Farmers Welfare कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation 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]

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Machine- 370/1194

TEXAS LILLI 632 TG POWER WEEDER

COMMERCIAL (ICT)

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), 544 P, Pace City 2,

Sector 37, Gurgaon,

Haryana - 122 001, **India.**

TEXAS LILLI 632 TG POWER WEEDER

Report No.: Machine-370/1194 Month: August Year: 2020



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Ministry of Agriculture and Farmers Welfare Department of Agriculture, Cooperation and Farmers Welfare Southern Region Farm Machinery Training and Testing Institute Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

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COMMERCIAL (ICT)

17. COMMENTS & RECOMMENDATIONS

17.1 Engine performance:

- 17.1.1 The maximum power and rated power were observed as 3.4 kW under natural ambient condition against the declared value of 4.5 kW. This should be looked into for corrective action.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 396 g/kWh against the declared value of 320 g/kWh. This should be looked into for corrective action.
- 17.1.3 Max. Torque was observed as 9.8 Nm against the declared value of 12.0 Nm.
- 17.1.4 Back up torque of engine was observed as 2.08 % against the declared value of 10.0 %. This should be looked into for corrective action.
- 17.1.5 During varying speed test of engine at both natural & high ambient conditions after attaining max. torque at 9.8 Nm & 8.6 Nm respectively, while further loading, sudden drop of engine rpm was observed.
- 17.2 Max. Noise at operator's ear level was observed as 88 dB (A).
- 17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 298 microns, Which is directly concerned with Operator's Health, Safety and Comfort. Besides, it also adversely affect the useful life of the components. In view of the above, this should be taken care for corrective action.
- 17.4 The hardness of rotary blades do not conform to the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action.
- 17.5 All constituents except silicon of chemical composition of blade are conforming to IS 6690:1981. Therefore, this should be looked into for corrective action.

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17.6 The provided labeling plate should be as per the requirement IS.

17.7 Technical literature:

User's manual and parts catalogue of power weeder and engine in separate booklets were supplied with the test sample for reference during the test. It is however, recommended that same June be revised and bought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY:

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II.N. DIXIT AGRICULTURAL ENGINEER	A)
Dr. P.P. RAO DIRECTOR	P.P. Rose

18. APPLICANT'S COMMENTS

re	Our eference	Applicant's comments	
1	17.1.1	We will inform our R & D team to look into this and corrective action to be taken.	
2	17.1.2	Noted, will inform our R & D team to correct the fuel consumption according to the declare value.	
)	17.1.3	The same will be informed to our test engineers for the corrective action.	
1	17.1.4	Will inform to our R & D team for corrective action.	
	17.1.5	Will inform the same to our R & D for remedial of sudden drop of engine rpm.	
6	17.2	Will suggest our R & D to decrease further	
	17.3	Will suggest design engineers to provide necessary anti vibration rubbers to decrease the vibration level & increase the components life.	
1	17.4	Will inform our R & D team to maintain the IS standards.	
	17.5	Noted, will take necessary steps to maintain the Silicon as per IS 6690:1981.	
0	17.6	Will provide as per the IS	
	17.7	Will provide in Hindi & regional language	