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

संख्या/No: Machine-380/1206 माह/Month: September, 2020

Validity: 31.08.2025



LISHANTH SR-1150 D-PTO 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- 380/1206

LISHANTH SR-1150 D-PTO POWER WEEDER

COMMERCIAL (ICT)

Manufacturer (apa) : M/s. S.R. Farm Equipments,

Manufactures & Distributor for Agricultural Equipments, Sri Siddeshwara Complex, JC Road, Tumakuru-572101, Karnataka, **India**

Applicant : The Manufacturer

LISHANTH SR-1150 D-PTO POWER WEEDER

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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 6.2 & 5.1 kW respectively under natural ambient condition against the declared value of 6.75 kW.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 239 g/kWh against the declared value of 290 g/kWh.
- 17.1.3 Max. Torque was observed as 20.50 Nm against the declared value of 22.0 Nm.
- 17.1.4 Back up torque of engine was observed as 1.0 %, against the declared value of 10 %. 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 20.50 Nm & 20.07 Nm respectively, while further loading, sudden drop of engine speed and thick black smoke was noticed.
- Max. Noise at operator's ear level was observed as 94 dB (A), which is higher than the limit specified by the ILO. Therefore, this should be looked into for corrective action
- 17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 392 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 conforms to the requirement of IS 6690:1981 (Reaffirmed 2012).
- 17.5 Silicon content of the chemical composition of rotary blade is not as per the requirement of IS 6690:1981. This should be looked into for corrective action.
- 17.6 The provided labeling plate should be as per the requirement IS.

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17.7 Technical literature:

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

TESTING AUTHORITY:

B.N. DIXIT AGRICULTURAL ENGINEER	A)
Dr. P.P. RAO DIRECTOR	PPRac

18. APPLICANT'S COMMENTS

"We will make all possible necessary changes in future production".