

THIS TEST REPORT IS VALID UPTO 30.04.2031



MOUNTFIELD, MF-9000D 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]

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Tele.: 08551-286441

Machine- 568/1621	MOUNTFIELD, MF-9000D POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa) : hongqing Diligence General Machinery Co.,
Ltd.No. 1, Kangachao Road, Banan District,
Chongqing, China-400054

Applicant : S V R AGRO IMPEX
Ground 01, Matur Main Road, Kadikal Mattur
Circle, Shivamogga, Karnataka-577203

MOUNTFIELD, MF-9000D POWER WEEDER

Report no.: Machine-568/1621

Month: May

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.)
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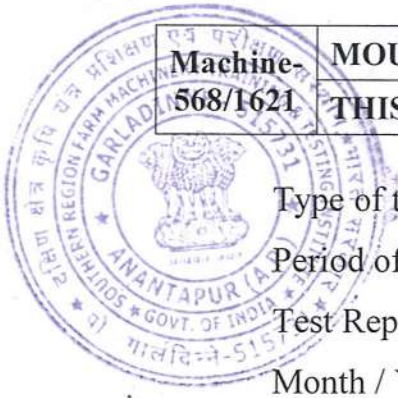
Telephone: 08551-286441

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

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

Page 2 of 34



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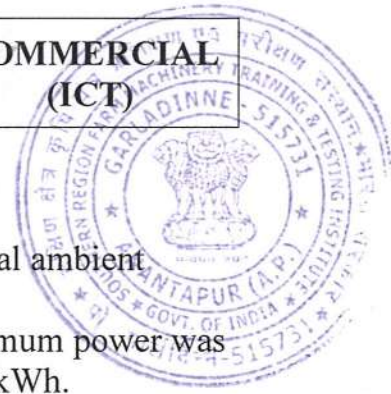
Type of test : COMMERCIAL (ICT)
Period of test : 14.02. 2024 to 08.04. 2024
Test Report No. : Machine-568/1621
Month / Year of release : May,2024

- 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 selected randomly through virtual mode by testing authority.
- iii) The results presented in this report do not, in anyway, 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 a report on Commercial Test of Power Weeder named "MOUNTFIELD, MF-9000D POWER WEEDER". This report is valid up to 30.04.2031, 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

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18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 5.98 kW under natural ambient condition against the declared value of 6.7 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 255 g/kWh against the declared value of 304 g/kWh.
- 18.1.3 Back up torque of engine was observed as 3.74% against declared value of 7%.
- 18.1.4 Max. torque was observed as 19.69 Nm against the declared value of 18Nm.

18.2 Mechanical vibration :

The amplitude of mechanical vibration on various assemblies of the weeder was observed to the extent of 572 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Hardness of the rotary blade is not as per the requirement of IS 6690:1981. This should be looked into for corrective action.

18.4 The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components inter alia, the following must be provided:

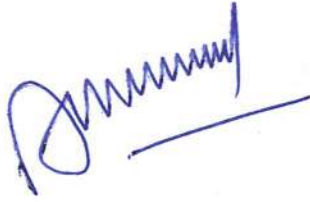


- i) Engine no.
- ii) Rated RPM
- iii) Country of origin
- iv) Specific fuel consumption (g/kWh)

18.5 Technical literature:

Owner's manual, service manual and parts catalogue provided in booklet form in English for reference during the test. It is recommended that same must be revised in 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.

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TESTING AUTHORITY

<p align="center">Er. PRAMOD YADAV AGRICULTURAL ENGINEER</p>	
<p align="center">Dr. B.M. NANDEDE DIRECTOR</p>	 

19. APPLICANTS COMMENTS

We consider your comments & recommendations seriously & with immediate effect we inform our production & marketing team to take corrective actions before dispatch.