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

संख्या / No: Machine-368/1192 Month: August, 2020 Validity: 31.07.2025



CHAMP PTG 700 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 द्रैक्टर 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: <u>fmti-sr@nic.in</u> Tele./FAX: 08551-286441

Manufacturer (apa)	:	M/s. Champ Energy Ventures Pvt. Ltd. Plot. No. 7, Gat No 399/1/2/3/B, Village Bhare, Tal. – Mulshi, Dist Pune, Maharashtra-412115, India.
Applicant	:	The Manufacturer

CHAMP PTG 700 POWER WEEDER Report No. : Machine-368/1192 Month: August

Year: 2020



Government of India 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.) [An ISO 9001:2015 CERTIFIED INSTITUTE]

Telephone: 08551-286441 Website: <u>http://srfmtti.dacnet.nic.in/</u> Fax: 08551-286441 E-mail: <u>fmti-sr@nic.in</u>

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

CHAMP PTG 700 POWER WEEDER

	Observation
:	None
:	None
:	None
:	
:	0.09
:	0.10
	· · · · · · · · · · · · · · · · · · ·

16.3 Transmission gears:

All the Gears and sprockets of the transmission system were found in normal condition.

16.4 Rotary drive unit:

The rotary drive unit was dismantled and all the components were found in normal condition.

17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

- 17.1.1 The maximum and rated power were observed as 3.6 & 1.3 kW respectively under natural ambient condition against the declared value of 3.7 kW.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 331 g/kWh against the declared value of 400 g/kWh.
- 17.1.3 Max. Torque was observed as 11.0 Nm against the declared value of 10.5 Nm.
- 17.1.4 Back up torque of engine was observed as 10.0 %, against the declared value of 7%.
- 17.2 Max. Noise at operator's ear level was observed as 89 dB (A).

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

Mach 368/1	CHAMPPIG / UUPOWER WE	EDER COMMERCIAL (ICT)
17.3	The amplitude of mechanical vibration or Power Weeder was observed to the max Which is directly concerned with Operator Besides, it also adversely affect the useful of the above, this should be taken care for o	kimum extent of 510 microns, r's Health, Safety and Comfort, life of the components. In view
17.4	The hardness of rotary blades does not co 6690:1981 (Reaffirmed 2012). This shoul action.	
17.5	All the constituents of chemical compositions rotary blades conform to the requirement 2012). Therefore, this should be looked in	t of IS 6690:1981 (reaffirmed
17.6	The provided labeling plate should be as pe	er the requirement IS.
17.7	Technical literature: Operator manual and parts catalogue of powere supplied with the test sample for however, recommended that same may be & other regional languages as per IS 8132 sake of user & technical personnel.	reference during the test. It is revised and bought out in Hind

TESTING AUTHORITY:

B.N. DIXIT AGRICULTURAL ENGINEER	8F
Dr. P.P. RAO DIRECTOR	P-P. Ros

18. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
18.1	17.3	We will take corrective action for this point
18.2	17.4	We shall take corrective action for this point
18.3	17.5	We shall look into for corrective action
18.4	17.7	We will revise the literature as per IS 8312:1999

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