

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 104/151
माह / Month : May, 2012

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REFERENCE COPY



GREENSYSTEM RT1015 ROTAVATOR

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सत्यमेव जयते

भारत सरकार
GOVT OF INDIA

कृषि मन्त्रालय
MINISTRY OF AGRICULTURE

कृषि एवं सहकारिता विभाग
DEPARTMENT OF AGRICULTURE AND COOPERATION

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान
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4. SPECIFICATIONS

4.1 General:

Manufacturer	: M/s Dasmesh Mechanical Works Amargarh, Dist: Sangrur Punjab – 148 022
Name of machine	: Rotavator
Type	: Tractor-Mounted (Gear drive)
Make	: GREENSYSTEM
Model	: RT1015
Serial number	: 1PYRT101KB5000008
Year of manufacture	: 2011
Type of blade	: Hatchet (L-Shaped)
Working width of implement (mm)	: 1510
Recommended power source	: 45-55 HP
Prime Mover Used during test	: New Holland 5500

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8. EFFECTIVENESS OF SEALINGS

After completion of dry & wet land operation for 27.1 and 16.3 hours respectively, the implement was dismantled for checking the effectiveness of sealing provided against ingress of dust, and water/mud in various sub-assemblies/components. The observations are given in ensuing table:

Sl. No.	Location	Whether ingress of mud and/or water was observed (Yes/No)
1	Primary reduction gear box	No
2	Secondary reduction gear box	No
3	Rotor assembly (hub)	No

9. EASE OF OPERATION & ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of rotavator.

10. DEFECTS, BREAKDOWNS AND REPAIRS

No noticeable defect or breakdown was observed during 43.4 hours of field operation.

11. COMMENTS AND RECOMMENDATIONS

- 11.1 The specifications of implement hitch, in full, do not conform to the IS: 4468 (Part-1)-1997. Hence, it is recommended that implement should be provided with the hitch conforming to relevant Indian standards.
- 11.2 Dimensions of PIC of implement, in full, do not conform to IS: 4931-1995 and therefore, it should be looked into for corrective action.
- 11.3 Chemical composition of rotor blades does not conform to relevant Indian Standards. This should be looked into for appropriate action.

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12. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's Comments
12.1	11.1	We agree and will provide implement hitch conforming to Indian Standards IS: 4468-1997 (Part-1).
12.2	11.2	We will make necessary corrections to dimensions of PIC to conform to IS: 4931-1995
12.3	11.3	The blades are manufactured using Boron Steel (27MnCrB5-2) conforming to EN10083 – 3. On the basis of wear analysis test, the wear limit was found within acceptable limits and hence, we would prefer to maintain chemical composition as actually observed during chemical analysis.
12.4	11.4	Suitable stickers on gearboxes indicating the grade and oil change period will be provided.
12.5	11.5	These parameters will be indicated as per recommendation.