

REFERENCE COPY

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 101/145
माह / Month : November, 2011



TATA-RT-MG-430L-540 ROTAVATOR



FMTTI (NER)
ACC. NO. TR-1327
DATE 8/12/11

भारत सरकार
GOVT OF INDIA

कृषि मन्त्रालय
MINISTRY OF AGRICULTURE

कृषि एवं सहकारिता विभाग

DEPARTMENT OF AGRICULTURE AND COOPERATION

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4. SPECIFICATIONS

4.1 General:

Manufacturer : TATA STEEL LTD.
 AGRICO DIVISION
 ARMOURY GROUND ROAD
 BISTUPUR, JAMSHEDPUR – 831 001

Name of machine : Rotavator

Type : Tractor-Mounted (Gear drive)

Make : TATA

Model : TATA-RT-MG-430L-540

Serial number : Not available

Year of manufacture : 2010

Type of blade : Hatchet (L-Shaped)

Working width of
 implement (mm) : 1220

Recommended power : 35-40 HP
 source

Prime Mover Used during : New Holland 5500
 test

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9. EASE OF OPERATION & ADJUSTMENTS

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

10. DEFECTS, BREAKDOWNS AND REPAIRS

- 10.1 Shear bolt of PTO drive shaft got broken during puddling operation, which was replaced with a new one.
- 10.2 Three numbers of rotor blades were found broken during dry rotavation operation, and replaced with the new ones.

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 Dimensions of PIC Yoke bore of PTO drive shaft, in full, do not conform to the requirements of IS: 4931-1995. It should be looked into for corrective action.
- 11.4 Hardness of rotor blades does not conform to relevant Indian Standards. This needs to be looked into for corrective action.
- 11.5 Suitable stickers indicating the grade & change period of oil used in gear boxes should be pasted on Rotavator.

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11.6 A labeling plate indicating the particulars like Make, Model, Serial No., month/year of manufacture, manufacturer's name and trade mark, (if any), size of implement & power requirement needs to be provided on a non-wearing part of the implement.

11.7 **Technical literature**

The following literatures were provided for reference during testing:

- User manual
- Instruction manual & Spares list.

TESTING AUTHORITY

P. K. PANDEY SENIOR TEST ENGINEER	
M.K. VISHWAKARMA DIRECTOR	

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12. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's Comments
12.1	11.1	We will do and provide all implements as per Indian Standards IS: 4468(Pt-I) - 1997.
12.2	11.2	Dimensions of PIC of implement will be changed as per IS: 4931-1995.
12.3	11.3	PIC Yoke bore of PTO shaft will be changed as per IS: 4931-1995.
12.4	11.4	Blade Hardness will be changed as per Indian Standards.
12.5	11.5	The Stickers will be put indicating the grade and change period of oil.
12.6	11.6	We will place labeling plate on the Rotary Tiller to include these information's.
12.7	11.7	Leaflet, operator's manual and spare parts, catalogue will be provided.