

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



संख्या/No.: Machine 82/453  
माह / Month: December 2022

## INCOMPLETE REPORT



542RBS HUSQVARNA BRUSH CUTTER



मन्त्रमव जयते

भारत सरकार  
GOVT OF INDIA

कृषि एवं किसान कल्याण मंत्रालय

MINISTRY OF AGRICULTURE & FARMERS WELFARE

कृषि एवं किसान कल्याण विभाग

DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान

NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

विश्वनाथ चारिआलि, जिला-विश्वनाथ (असम)

BISWANATH CHARIALI: BISWANATH: ASSAM, PIN - 784 176

[AN ISO 9001:2015 CERTIFIED INSTITUTION]

Ph. No. 03715-222094

Website: <http://nerfmtti.nic.in>

Fax No: 03715-230358

E-Mail: [fmti-ner@nic.in](mailto:fmti-ner@nic.in)

## 1. SCOPE OF TEST

### 1.1 LABORATORY TEST

- Checking of specifications
- Mechanical vibration measurement
- Noise measurement
- Wear assessment of critical components
- Engine performance test

### 1.2 FIELD TEST

- Rate of work
- Quality of work
- Labour requirement
- Adequacy of prime mover power
- Ease of operation, adjustment & safety provisions
- Defects, breakdowns and repairs

## 2. METHOD OF SELECTION

The test sample was selected by the testing authority through random selection. The following test samples were presented by the applicant during the random selection at Applicant's site.

Sr. No.	Serial No. of test sample	Sr. No.	Serial No. of test sample	Remarks
1	20212001019	11	20212000953	Out of 20 samples Sr. No. 19 sample has been randomly selected.
2	20212000876	12	20212001052	
3	20212000979	13	20212001031	
4	20212000841	14	20212000970	
5	20212000996	15	20212000983	
6	20212000908	16	20212000980	
7	20212000961	17	20212000976	
8	20212001124	18	20212000850	
9	20212000882	19	20212000871	
10	20212000913	20	20212000958	

## 3. TEST CODE AND PROCEDURE

There is no Indian Standard Test Code available for testing of brush cutter as such.

## 4. SPECIFICATIONS

### 4.1 General

Name of the Machine : Brush Cutter

Name and address of the manufacturer : Husqvarna Zenoah Changzhou Machinery Co., Ltd. No. 366 Huanghe West Road, Xinbei District, Changzhou, Jiangsu, P.R. CHINA.

Name & Address of Applicant : Husqvarna India Products Private Limited, 5/5, Swees house, Sir P.S. Sivasamy Salai, Mylapore Chennai, 600004, Tamil Nadu

Model : 542RBS

Serial No. : 2021200087A

Type : Shoulder Mounted Engine operated

Type of cutting attachment : Nylon rope and straight blade

Year of manufacture : 2021

Country of origin : CHINA

Type of crops/bush recommended : For bushes, weeds and grass cutting.

#### 4.2 Constructional details :

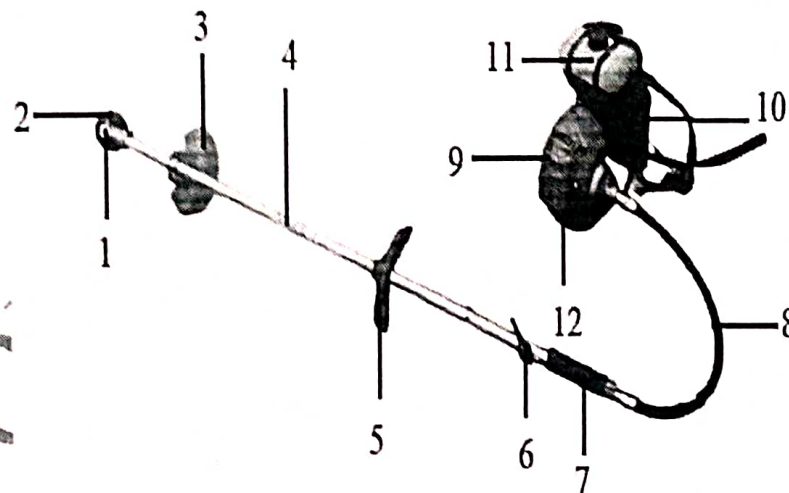


Fig. 1 : 542 RBS HUSQVARNA BRUSH CUTTER

#### Keywords:

- |                                  |                                 |
|----------------------------------|---------------------------------|
| 1. Gear case                     | 7. Handle grip                  |
| 2. Nylon rope cutting attachment | 8. Flexible drive shaft cover   |
| 3. Deflector                     | 9. Engine                       |
| 4. Transmission cover pipe       | 10. Cushion for operator's back |
| 5. Handle grip                   | 11. Fuel Tank                   |
| 6. Throttle cum clutch trigger   | 12. Engine mounting stand       |

**8. FIELD PERFORMANCE TEST**

The machine was withdrawn by the applicant from testing. After completion of 15.36 hours of field test the result are shown in ANNEXURE-I & II.

**8.1 Labour/operator requirement :**

It was observed that an averagely built person can able to operate the brush cutter for 40 to 45 minutes at a stretch. Hence, at least minimum two operators are required for continuous operation of the brush cutter.

**9. EASE OF OPERATION AND ADJUSTMENTS**

Field performance test was not completed.

**10. DEFECTS, BREAKDOWNS AND REPAIRS**

- a) It was observed that after 12.36 hours of field testing the engine speed was not stable at rated speed.
- b) Clutch shoe was worn out during the field test. On request of applicant, clutch shoe was replaced.

**11. COMMENTS & RECOMMENDATIONS**

- 11.1 The machine was withdrawn by the applicant from testing. Accordingly, as per request of the applicant as such the incomplete test is report released.
- 11.2 It was observed that after 12.36 hours of Field testing the engine speed was not stable at rated speed and hence field test could not be completed. This should be looked into for quality improvement.
- 11.3 Clutch shoe was worn out during field test and on request of applicant clutch shoe was replaced. This should be looked into for quality improvement.
- 11.4 The engine was not marked with Manufacturer name or trade-mark, Rated power, Rated speed and type of fuel used which does not fulfill the requirement of IS 7347-1974 (Amended 2011). This should be looked into for corrective action.
- 11.5 As a safety wear only goggle (safety glass) was provided with the machine. The applicant has strictly advised to provide the entire safety kit viz. helmet, hand gloves, ear plug, mask, safety shoes etc. along with each machine for the safety of operator.

**11.6 Adequacy of Literature**


The following literature in English language was provided for reference during testing:

- Operator's/ Service manual
- Parts catalogue

It is recommended to bring out the manual in Hindi and other vernacular languages as per IS: 8132-1999.

**TESTING AUTHORITY**

  
(M.R. PATIL)  
AGRICULTURAL ENGINEER

  
(S.G. PAWAR)  
AGRICULTURAL ENGINEER

  
(Dr. P.P. RAO)  
DIRECTOR

Draft test report compiled by - **Shri Pankaj Sethi**  
Technical Assistant

**12. APPLICANT'S COMMENTS**

Sr. No.	Clause No.	Applicant's Comments
12.1	Sl. No 11.1 to 11.6	No Comments

