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APPROVED

Testing Center Director

V.I. Volkov

TEST PROTOCOL

1. ITEMS TO BE TESTED

Samples of automotive air filters: TA-1343 (TOTACHI, Totachi Industrial Co., Ltd Japan), 17801-00060 (TOYOTA, Toyota Motor Corp. Poland) and S24005 (MANN FILTER, MANN-HUMMEL GmbH, Bulgaria).

The marking, containing the manufacturer's name, trademark, bar code and product designation are applied to the filters and their packaging.

2. TEST OBJECTIVE

The objective of the given tests is to define, whether the aforementioned filters meet the requirements of the Technical Regulations of the Customs Union 018/2011 "On the safety of wheeled vehicles" (Appendix No10, paragraph 78).

The above requirements are provided by the use of national standard GOST R 53837 "Automobile engines. Air filters. Technical requirements"

3. SCOPE AND PROCEDURE OF TESTS

Tests were carried out according to the procedure, set out in GOST 8002-74 “Reciprocating internal combustion engines. Air filters. Methods of non-motorized bench tests.” During the tests the following parameters were determined: average coefficient of dust passing, air filter resistance and duration of the work, as well as the overall and fitting dimensions. Tests were carried out on the stand, certified to the GOST 8.568-97 (registration number 62787) on silica dust with a surface area of 5,600 cm/g

4. TEST RESULTS

Air filters test results are given in the table.

Parameters	at GOST R 53837-2010	At test results		
		TA-1343 TOTACHI	17801-00060 TOYOTA	C24005 MANN
1. Resistance of the air filter with clean filtering element at a the air flow rate of 246m ³ / h, kPa.	Not more than 2,50	0,39	0,50	0,41
2. Average coefficient of dust passing at air flow of 246 m ³ /h, %	Not more than 1	0,62	0,73	0,75
3. Resistance of the air filter with an air flow of 246 m ³ / h, air dust 1.0 g / m, and working hours 35 minutes. Dustiness of air of 1,0 g/m ³ work duration is 35 minutes	Not less than 1,4	0,77	0,56	0,57

5. SUMMARY

Tests of the air filters TA-1343, 17801-00060 and S24005 have shown that they comply with the requirements of the Technical Regulations of the Customs Union 018/2011 “On the safety of wheeled vehicles” (Appendix №10 78) and GOST R 53837-2010.

Senior Research Engineer

I.A. Markelov (Signed)