COMPARISON BETWEEN CATALYTIC CONVERTER AND CERAMIC WOOL SILENCER

Saurav Singh, Sansar Malik, Mr. Vinay Kumar
1, 2 Students, 3 Assistant Professor
Department of Mechanical Engineering
Mahaveer Swami Institute of Technology, Sonipat, Harayana

1. INTRODUCTION

The research is for the comparison between catalytic converter silencer and ceramic wool silencer for better millage of engine. In this research we will use both catalytic converter silencer which is usually company fitted and ceramic wool which is a after market silencer.

The engine used in this research is a Royal Enfield Bullet 350cc with a carburetor for fuel supply. The engine is of accurate 347cc. The research is performed on a highway road for accurate readings.

2. THEORY

In first test we have used a catalytic converter silencer which is a company fitted silencer. Fuel used is 100ml for test. And the millage reading of catalytic converter silencer is of 35km/L. The bike runs for almost 3.5 km on a highway

In second test we have used a ceramic wool silencer which is aftermarket silencer. Fuel quantity is same as previous (100ml). The millage reading of ceramic wool is of 40km/L. The running condition of bike is same as previous

3. APPLICATION

The application of ceramic wool silencer is of all type of automobiles and two wheelers where we need good performance as well as no emission of harmful gases there we need to use a ceramic wool silencer instead of catalytic converter silencer. It also provides a better fuel economy and performance also.
4. RESULT
Using ceramic wool silencer can easily increase your millage and engine performance without harming the atmosphere.

5. CONCLUSION
Conclusion of this research is that the ceramic wool silencer gives more millage because in ceramic wool silencer exhaust gases pass easily through it due to which back pressure does not occur. Therefore, the engine's millage increases. In a catalytic converter silencer, back pressure reduces the flow of exhaust gases and back pressure reduces the millage of the engine.

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