



ChemTech

## International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555  
Vol.9, No.05 pp 705-711, 2016

### Lubrication Improvement in Internal Combustion Engines

G. Mageshwaran\*, Jeya Jeevahan, G.Britto Joseph,  
Teladevalapalli Narasimham

Dept. of Mechanical Engineering, Sathyabama University, Chennai-119,  
Tamilnadu, India.

**Abstract :** In IC engine, the lubrication oil is circulated to the various reciprocating and rotating parts in order to reduce the friction losses and to reduce the wear and tear of engine parts. When the engine lubrication oil is flowing through the oil hole in the cylinder barrel, there could be the problem of oil leak through the fins from cylinder barrel, due to the inherent limitations in the quality of casted cylinder barrel. In order to avoid those oil leak situations, oil holes are made of copper tubes which leads to increase in the manufacturing cost. In this project, we have planned to do some value analysis and value engineering on cylinder barrel oil flow way to reduce the cost of manufacturing, without altering the functionality of oil hole.

**Key words:** ICE- Internal Combustion engines, VAVE- Value analysis and Value engineering, FAST- Function Analysis System Technique, SAVE- Society of American Value Engineers.

G. Mageshwaran *et al* /International Journal of ChemTech Research, 2016,9(5),pp 705-711.

\*\*\*\*\*