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## Effect of L-Ascorbic acid on performance and emission behavior of neem biodiesel operated diesel engine

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## **Abstract**

Nowadays, researchers are view in multidimensional of the consumption of fossil fuels, energy conversion and emission control. Many researches proved that <u>biodiesel</u> is the best alternate sources for conventional diesel fuel. In worldwide <u>biodiesel</u> is extracted from vegetable oil obtained from transesterification process. In the present investigation, the nerium oil methyl ester (NOME) with L-ascorbic acid as additive is used as fuel in order to find out working characteristics of diesel engine. The NOME) proportions with 1% L-ascorbic acid (LA) as additive. The break thermal efficiency (BTE) of B20 with 1% of LA is 3.12% higher than diesel. The brake specific fuel consumption (BSFC) decreased 3.84% by adding of LA additive with B20 blend (B20+LA)