Análisis de Rendimiento y Costo de los Combustibles Ecopaís y Super [

2018

text (article)

Analítica

This study is based on an objective, systematic, and controlled investigation performed with the purpose of analyzing the performance, cost, and emissions testing between Super and Ecopais fuels, using a 2017 Chevrolet Aveo model, 1500cc engine, four-cylinder vehicle. The study performs a comparative analysis of four predetermined routes, circulation schedules under similar working conditions for the vehicle. In the methodological aspect, literature related to the topic was reviewed to obtain appropriate data regarding the performance of the two types of fuels available in Ecuador and the use of support applications available online like Google Maps, GPS Speedometer, and Hudspeed were also employed. Using these digital devices like route trackers, allowed performing different performance tests to determine if both fuel types fulfilled the vehicle's parameters for consumption and emission levels. This will allow to establish whether the costs of fuel consumption and long-term maintenance for internal combustion engine vehicles are truly reduced. Results regarding fuel consumption are shown in the conclusion, the Super fuel offers better consumption mileage, producing a lower long-term cost. However, other parameters that can cause additional costs are not being taken into consideration, like the possibility of water absorption by the ethanol present in the Ecopaís fuel which might pose a long-term damage to the metallic parts suffering corrosion, as well as the absorption of impurities alongside the moisture present in the fuel
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Editorial: 2018

Tipo Audiovisual: Consumo de combustible Motor de combustión interna Costo de combustible Rendimiento vehicular Pruebas vehiculares Fuel consumption Internal combustion engine Fuel cost Vehicle performance vehicle testing

Documento fuente: INNOVA Research Journal, ISSN 2477-9024, null 3, Nº. 1, 2018, pags. 135-149

Nota general: application/pdf

Restricciones de acceso: Open access content. Open access content star

Lengua: Spanish

Enlace a fuente de información: INNOVA Research Journal, ISSN 2477-9024, null 3, Nº. 1, 2018, pags. 135-149

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