



## GREEN TECH OIL FILTER

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This report is submitted to the Department of Mechanical Engineering in partial fulfilment of the requirements for graduation Diploma in Mechanical Engineering

## PROJECT REPORT VERIFICATION

This report entitled "Green Tech Oil Filter" has been submitted and reviewed as to meet the conditions and requirements of project writing.

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## ABSTRAK

GT Oil Filter diaplikasikan hasil daripada pemerhatian dan temubual mengenai penapis minyak yang sedia ada. Penghasilan projek ini adalah untuk kegunaan di kantin dan kafe Politeknik Mukah bagi meminimumkan pembuangan minyak ke bahagian longkang utama. Produk ini mampu mengatasi masalah yang timbul daripada penggunaan penapis yang sedia ada. Antaranya ialah bau yang kurang menyenangkan dan pencucian penapis setiap hari. Secara keseluruhannya projek ini menggunakan keluli tahan karat pada bahagian badan dan dikuasakan dengan motor 0.37 kilo watt untuk menggerakkan shaf. Hasil daripada uji lari yang telah dijalankan, projek ini mampu mengasingkan 58ml minyak dalam masa satu minit. Peningkatan sebanyak 50% berbanding penapis minyak sedia ada.

## ABSTRACT

This project applied the observations based on interviews about the existing oil filter in PMU. The objective of this project is to design and produce the oil filter system for use in canteens and cafes only. This product to solve some of the problems arising from the use of an existing filter. Such as an unpleasant smell and it's need to clean it every day. The overall project is to use stainless steel for the body and is powered by 0.37 kilo watt motor to drive the shaft. The result after test run of which has been carried out, the project is able to separate oil 58ml within one minute. An increase of 50% compared to existing filters.

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