



COMPANY ANALYSIS

ASPEC LUBRICANTS (MALAYSIA) SDN. BHD.

TECHNOLOGY ENTREPRENEURSHIP (ENT600) : CASE STUDY

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EXECUTIVE SUMMARY

The growth of economy sectors for each country tends to evolution of machines system such as factory machines, transportation machines and agriculture machines. The all of machines require the lubricants oils provide protection, cooler, cleaner to the components of machines especially engines parts which expensive cost for repair this. Therefore, the demand of lubricants oils will increase that have a tendency to increase the demand of raw material of base oil called crude oil. In Malaysia, one of distributor company of lubricants oils is AsPac Lubricants (Malaysia) Sdn Bhd. The problem statement of this study is alternative solution or innovation to reduce demand of fresh mineral lubricants oils and their effect to environments.

The fresh mineral base lubricants oil is dominating the market of lubricants oil because their great performance which many variations to each engine respectively through diesel or petrol. However, the price of lubricants oils depends on price oil crude oil which depends the demand and supply, as we known the crude oils is not renewable energy source and can being empty or the price will be increasing. The prices of lubricants oils not significantly increase for each change because the lubricants oils performance not fully depend on base oil quality but its additives were blended into base oil. But the higher significantly increasing crude oil's prices will affect the lubricants oil. The used mineral lubricants oils have impacts to environmental if in contaminants into water and burnt causes air pollutions.

The improvement of lubricants oils to solve the problem is used recycle lubricants from used petrol engine and bio-lubricants oils from palm oil. The two lubricants oils will be blending together because both compounds are non-polar molecules. Before blending process the triglycerides were modified to produce estolide to reduce thermal oxidation and poor low temperature properties and also reduce reactivity of triglycerides to react with oxygen and potential of H beta remove from molecular structure. This innovation can be solved the problem of increased prices of lubricants oils for agriculture sector because this products designed for tractor and combined hasverter and reduced the environmental pollution by effect of contaminants mineral lubricants oil.

2.3 Product/ Service

a. Castrol EDGE



This products are fully synthetic lubricants oils with Titanium fluid that provide the efficient fuel consumption and maximum reduce the fraction for engines cars through at higher internal pressure in engine and offer maximum performance of engine car. The viscosity grade provided are 0W to 5W as it the lowest operation temperature.

b. Castrol MAGNATEC



The Castrol Magnatec is produced for petrol and diesel engine oil for commercial vehicles engines and car engines with new technology is known as Dualock in difference of viscosity and composition as semi-synthetic and fully synthetic engine oil.