

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM**



A PROJECT REPORT ON

**“STUDIES ON EFFECT OF BIODIESEL ON THE ENGINE
CRANCKCASE LUBRICANT”**

Submitted in partial fulfillment for the award of the degree in

Bachelor of Engineering

In

MECHANICAL ENGINEERING

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ABSTRACT

Biodiesel is a vegetable oil-based fuel that runs in diesel engines, which are used in cars, Biodiesel is considered as renewable alternative substitute for the fossil diesel in the diesel engines. The properties of diesel are closer to diesel. The presence of oxygen in the biodiesel makes it prone to oxidation. Also the properties of biodiesel may change during long storage period. The biodiesel may enter the crankcase of the engine due to its higher viscosity and lower volatility. Hence, it is necessary to find the effect of biodiesel on the engine crankcase oil. From this work, it is observed that the biodiesel significantly affects the crankcase oil and hence precautions should be taken.
