

ABSTRACT

DESIGN, FABRICATION AND ANALYSIS OF GEAR BOX

The monitoring of gearbox condition is a vital activity because of its importance power transmission in any industry therefore to improve upon the monitoring techniques and analysis gear box condition like a vibration, engine temperature and transmission efficiency. The current passing through the motor running the gearbox, there has been a endeavour for improvement in these monitoring techniques, Techniques such as vibration, engine temperature and transmission efficiency. Which can be achieved through gearbox current analysis which has been successfully applied to check the condition of gear box.



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Vibration

All gear box with moving parts gives rise to sound and vibration. Each gear box has a specific vibration signature related to the construction and state of the gear box. If the state of the gear box changes vibration signature also changes. A change in vibration signature can be used to detect incipient defects before they become damage. Now days the demands for condition monitoring and vibration analysis are no more limited trying to minimize the consequences of gear box failure

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