

- oil analysis- allows engineers to constantly check the condition of a machine's oil lubricant and determine if it has been compromised by other particles and contaminants.

Advantages of Predictive Maintenance

1. Minimizes unplanned downtime of mission critical assets
2. Reduces time spent on maintenance
3. Increases the life expectancy of machines and equipment in some cases by 20 to 40 percent
4. Reduces machine breakdowns and unexpected failures
5. Minimizes costs spent on labor, spare parts, and equipment
6. Reduces stock of spare parts due to increased service life of assets
7. Improves safety throughout the workplace for technicians and operators

Disadvantages

1. Detailed and time-consuming planning to ensure this maintenance approach is deployed throughout each facility and details all assets
2. Purchasing the right condition-monitoring equipment which can result in high upfront cost
3. Hiring skilled staff or training maintenance teams which can be expensive

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