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Prevention & Break-down Maintenance

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Outline

- Introduction
- Lubrication system
- Benefits of Lubrication
- Lubrication System
- Benefits of Lubrication



Lubrication system

- Lack of lubrication is one of the principal causes of equipment breakdown. The best solution is to have a regular lubrication schedule, and perhaps a lubrication chart for each machine, setting the frequency of lubrication, type of lubrication needed, and places to be lubricated.
- Bearings that are operated at high temperatures must have a lubricant specially adapted for this use, just as those bearings that operate at extremely low temperatures will require zero oil.
- The most tightly enclosed oiling system will with time allow moisture to accumulate. It is essential to occasionally check the oil in an enclosed drive to make certain it is not contaminated with water. Usually the water will collect at the bottom and may be drawn off easily.



Benefits of Lubrication

- Less production downtime
- Fewer major overhaul, hence less cost repair bills.
- Fewer repetitive repairs.
- Less spoilage and product waste, hence a factor in better quality control.
- Postponement or elimination of cash outlays for premature replacement of physical plant and/ or equipment
- Requirement of less standby equipment thus reducing capital investment
- Shift from inefficient breakdown maintenance to less costly scheduled maintenance/hence better work control and saving due to



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- Better spare part control, leading to minimum inventory yet having appropriate spares at hand when needed.
- Greater safety for workers and improved protection for plant.
- Reduced utility and fuel costs.
- Lower unit costs or manufacture.
- Greater certainty in meeting production schedules.



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Thank you