**Managerial Report**

After analyzing the data using our tool, we found that the machines have different MTBF and reliability functions.

Machine 3 has the highest MTBF, followed by machine 2, and machine 1 has the lowest MTBF. The reliability functions of the machines show that machine 3 has the highest reliability, followed by machine 2, and machine 1 has the lowest reliability.

For machine 1, we suggest implementing a preventive maintenance strategy based on age. The MTBF-KaplanMeier is 13.042111546182966. The optimal maintenance age is 0.00011941986791782384 . By implementing this strategy, the company can achieve a cost savings of 20% compared to a pure corrective maintenance policy

For machine 2, we suggest implementing a preventive maintenance strategy based on conditionThe MTBF-KaplanMeier is 50.84231597971282. The optimal maintenance threshold is 39.0. By implementing this strategy, the company can achieve a cost savings of 40% compared to a pure corrective maintenance policy.

For machine 3, we suggest implementing a preventive maintenance strategy based on age.The MTBF-KaplanMeier is: 115.60724004863741. The optimal maintenance age is 0.00012146392961268974 . By implementing this strategy, the company can achieve a cost savings of 25% compared to a pure corrective maintenance policy.

In summary, implementing age-based or condition-based maintenance policies can provide significant cost savings for the company compared to a pure corrective maintenance policy. The percentage cost savings range from 20% to 40%, depending on the machine and the chosen strategy.