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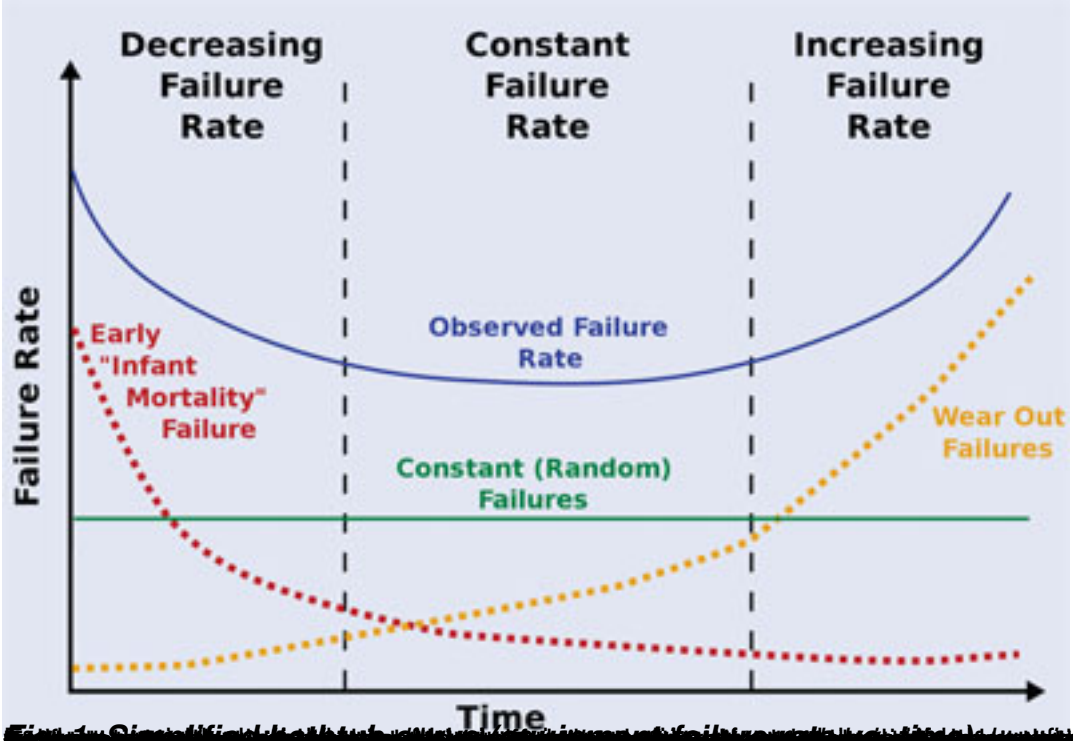
No matter where you start, one of your main objectives will always be to get the most service life possible from your equipment.

The basis for most condition-monitoring programs for critical plant equipment consists of two fundamental parts:

1. The periodic measurement of key performance parameters of the equipment.

2. A comparison of the equipment's key performance parameters with an acceptance standard.

In essence, this basis contains an assumed correlation: If the measured key performance parameters are in line with accepted standards, then the equipment as a whole has a high probability of performing well.



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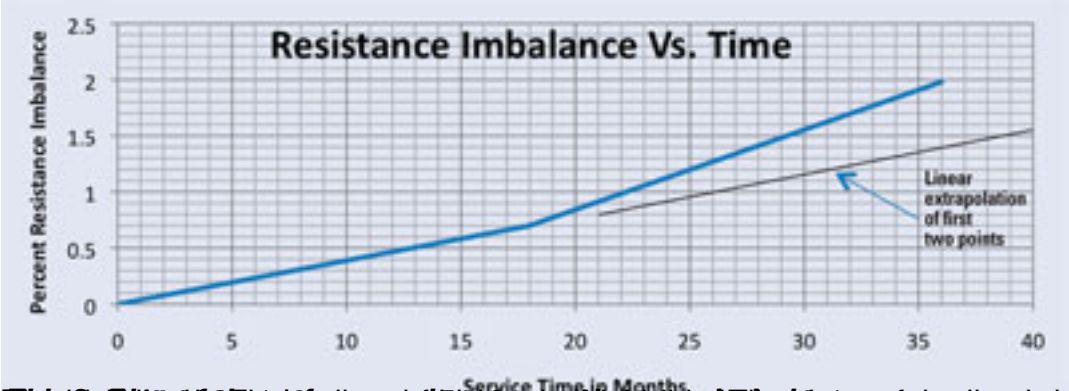

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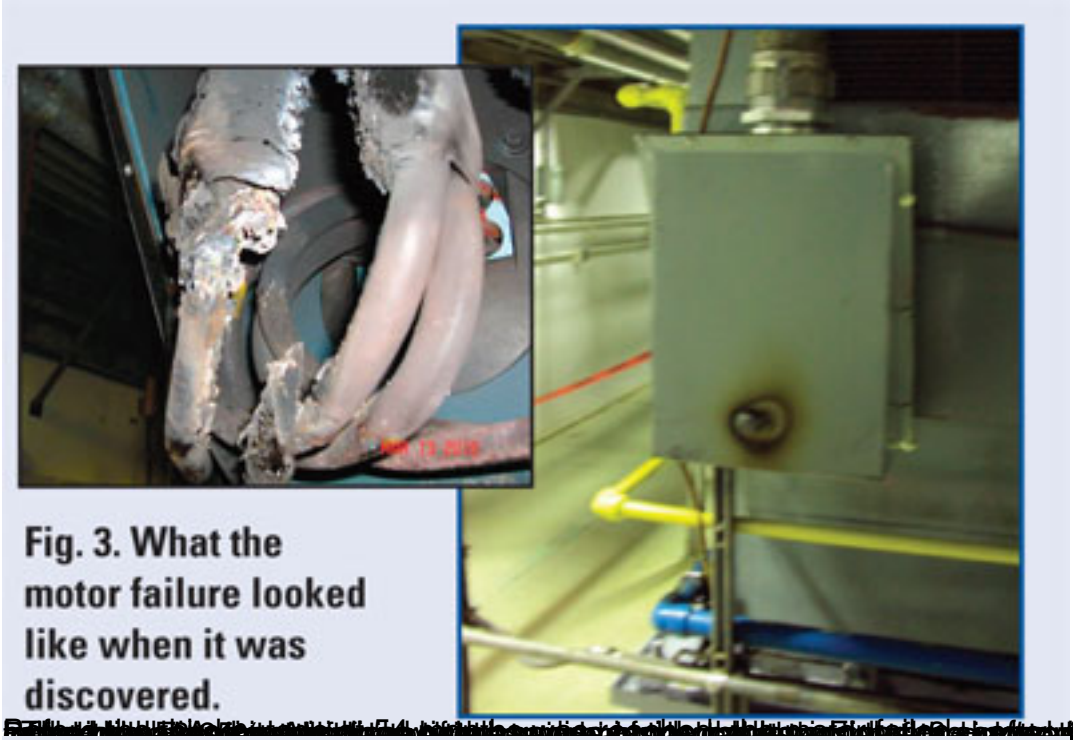
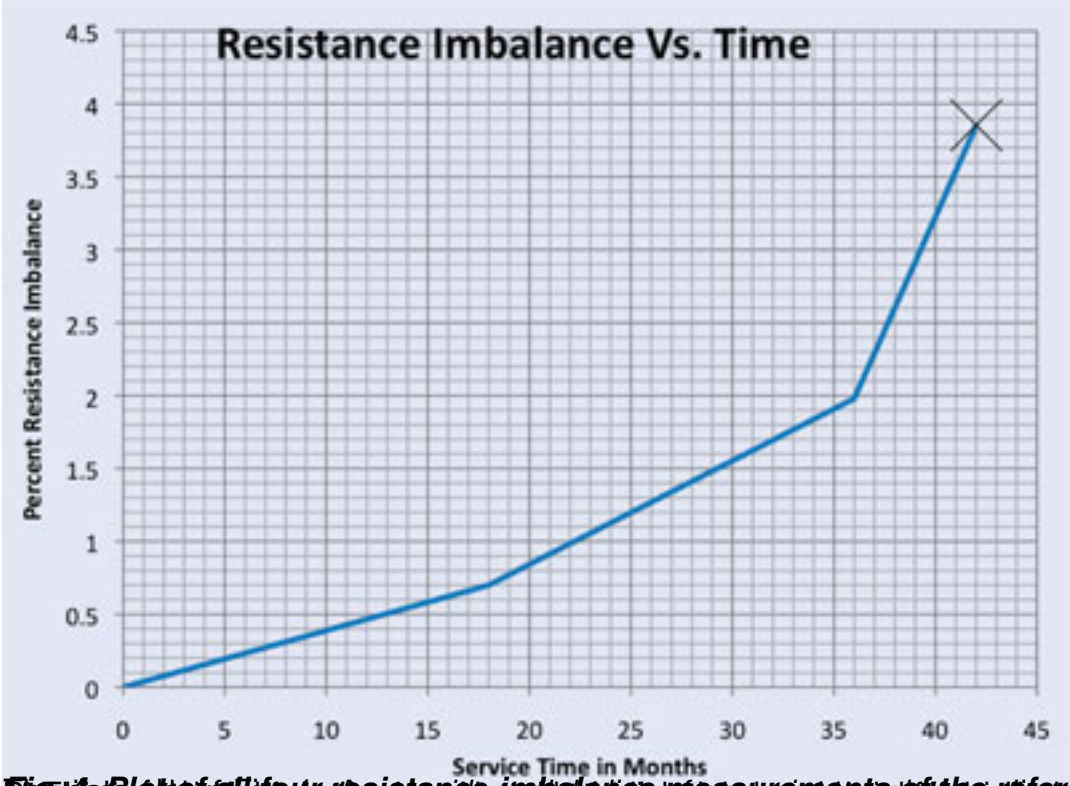


Fig. 3. What the motor failure looked like when it was discovered.



$$y = e^{(0.030333)t} - 1.00$$

where y = *percent resistance imbalance, and*
t = *service time in months.*

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