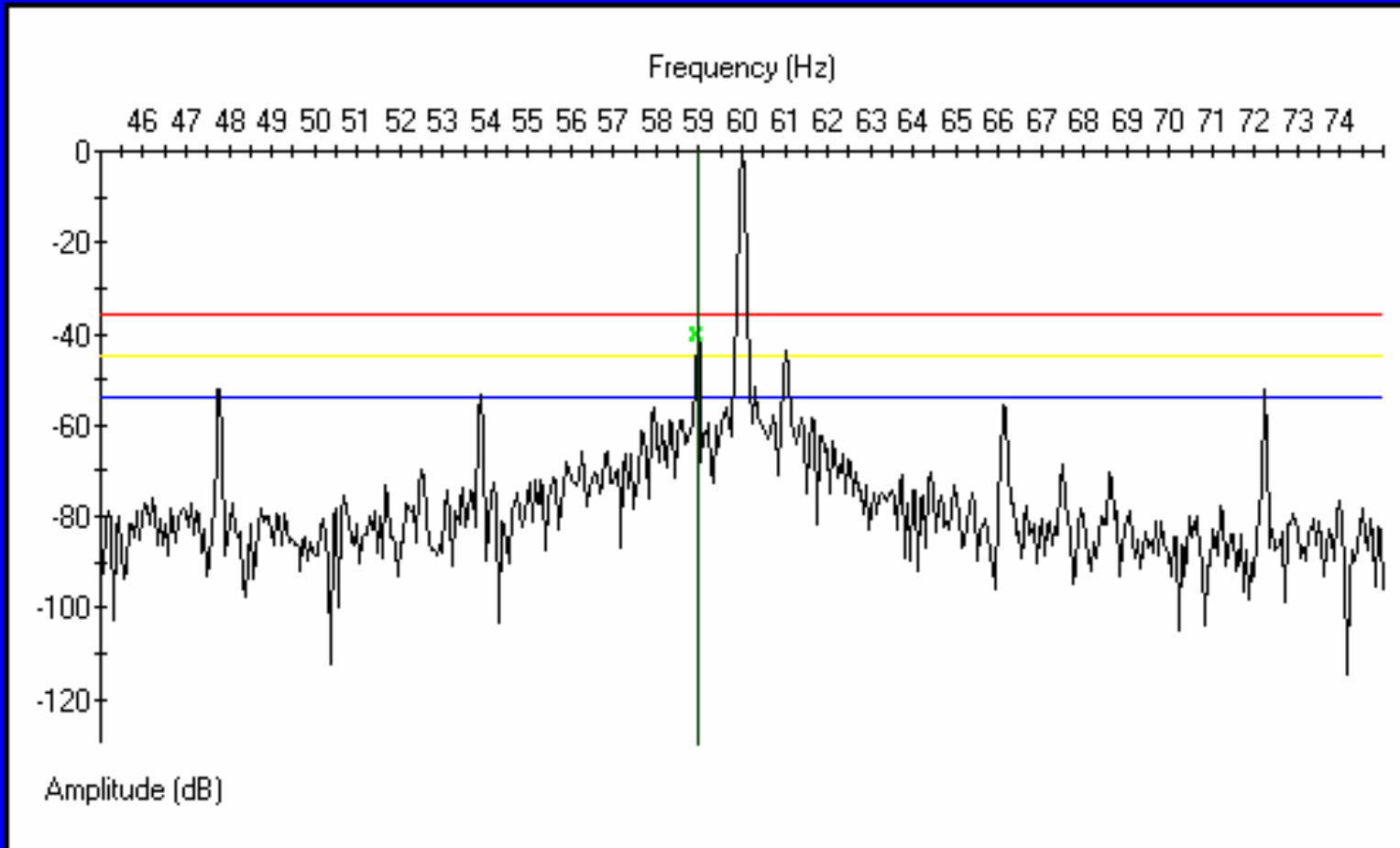
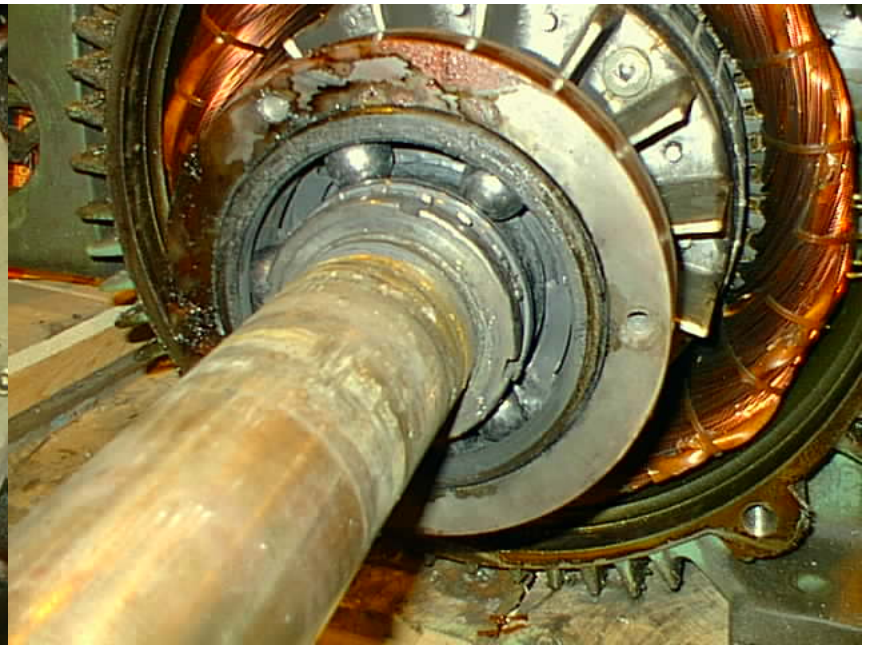


Case History
Blower Motor
125 HP
480 VAC 3 Phase

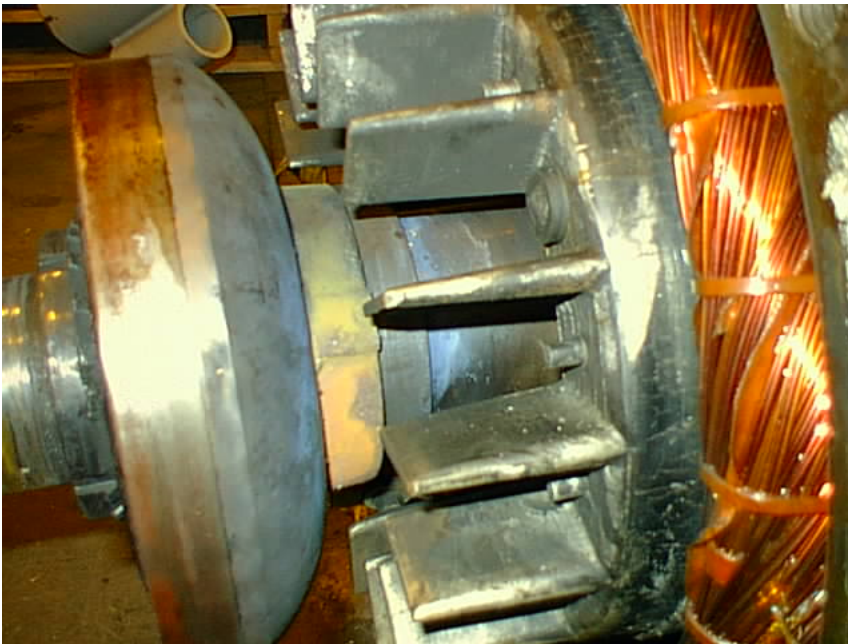
Brass Tag # 02845
Maintenance Reliability Dept.
Jim Zuidema



The green X marks the spot for a rotor bar problem when using PdMA MCE Emax Online current signature analysis, in this case about -41 db



Motor removed due to DE bearing failure 3/17/2003



The rotor was core loss tested
with an obvious hot spot

A 3” wide slice was cut from the
the rotor for further analysis

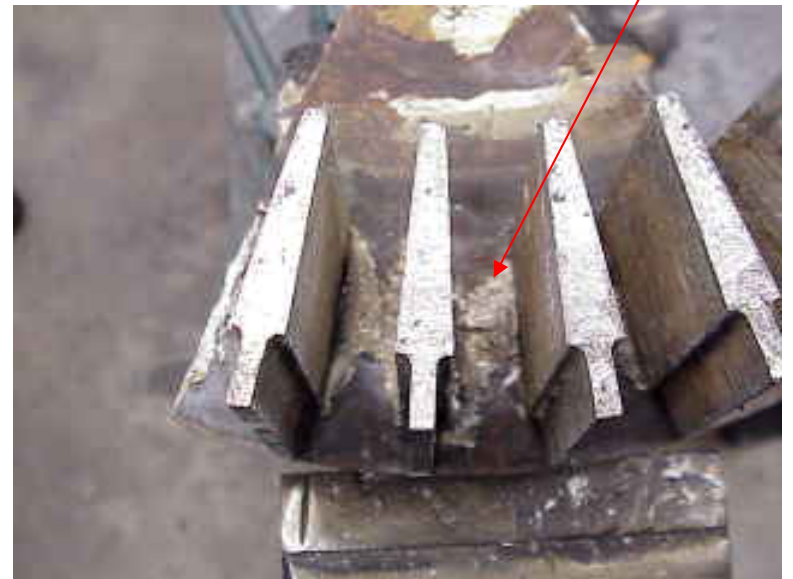
- Our local non destructive ultrasonic metal inspection department located anomalies in the area of the hot spot found by the core loss test.

A pie shaped cross section was cut from the 3” slice of the rotor for further inspection.

Laminations were then removed one at a time to reveal the suspected problem.



With 4 laminations left we noted aluminum between them and a wobbly rotor bar!





Walla, broken rotor bar, obviously!
PdMA was right on the money.



Because this motor had a known defect, it was not repaired but replaced, saving future expenses and down time that most likely would have been caused by this motor, had it been repaired and put back in service.