

Automobile Industry

CASE STUDY

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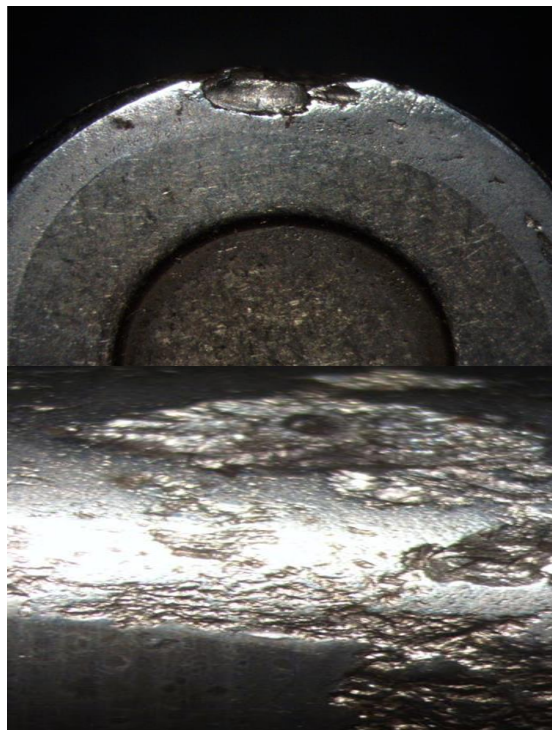
Key Facts

Sector Automobile

Category Investigation on SKF NU217 Bearing

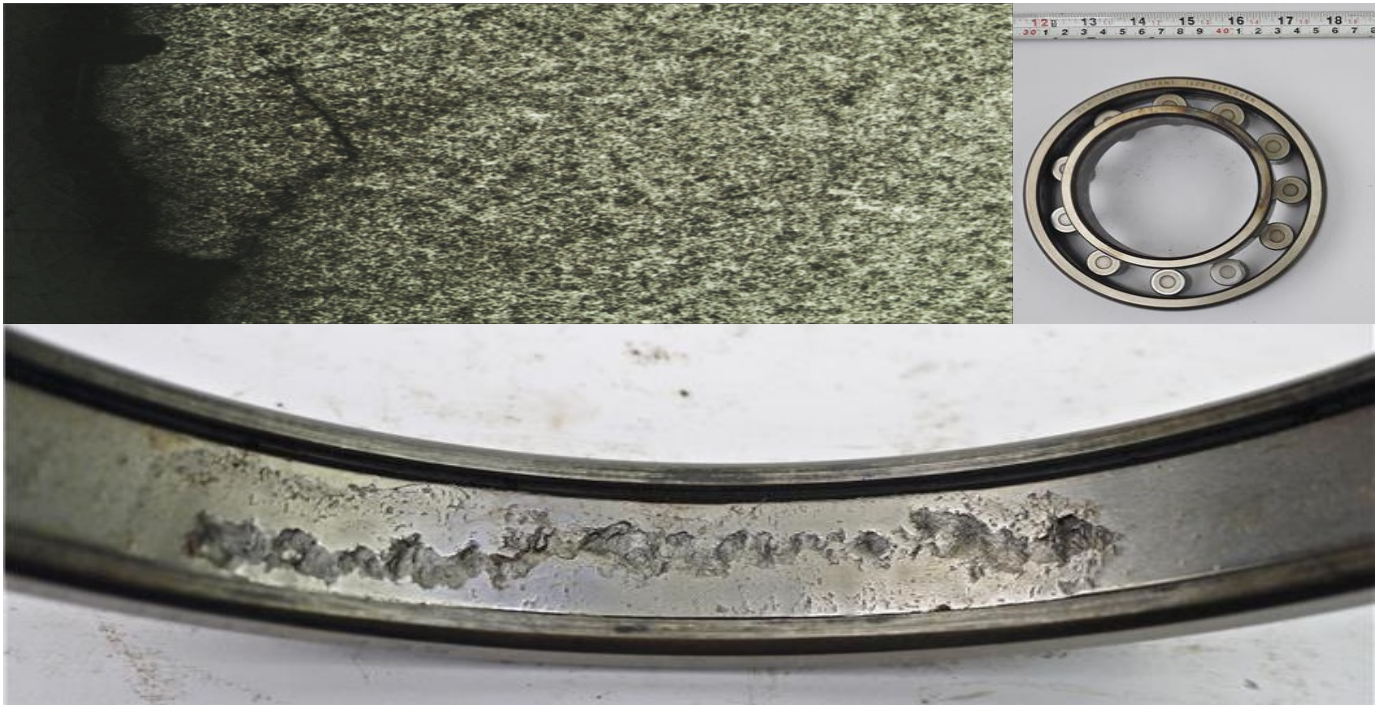
Problem

- During routine monitoring high vibrations was noticed on SKF NU217 bearing.
- Another Bearing of FAG NU1014.M1.C3 failed.



Diagnosis

- Damage to the bearing components viz. outer race, inner race and rollers is because of rolling contact fatigue promoted by excessive shear stresses, likely to be caused by either misfit or poor lubrication quality.
- Scattered surface spalling on the working surface of the components is noticed along with acute angle sub-surface cracking at several locations.



Solution/Recommendations

- The bearing components metallurgy in terms of MOC, microstructure and hardness values appear to be normal.
- Lubricating parameters and quality of lube oil are required to be closely monitored.
- Meticulous care shall be taken while fitting the bearing such that there is no distortion or misalignment.

Contact Us

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