

SMOOTH TRANSMISSION SECURED



SITUATION

A steel company was facing repeated cases of leakages from the gearbox flanges. High vibrations and heavy shock loads experienced by the gearboxes loosened the bolts which mount the housing. This reduced the clamp load on the gaskets which led to costly leaks and necessitated immediate cleanup to prevent accidents and gear seizure.



CONVENTIONAL METHOD USED

PRE-CUT GASKETS



WHY DOES IT NOT WORK

Pre-cut gaskets are held in place by the mounting bolts. Once the bolts loosen the cut gaskets cannot maintain seal and gaps appear leading to leaks.

LOCTITE SOLUTION

LOCTITE 515

LOCTITE 515 flange sealant was used to seal gearbox flanges. Being liquid it occupied all surface irregularities and hardened to form a hard thermoset plastic which unitized the assembly against leakages.



RESULTS



Low inventory of cut gaskets



Reduced downtime
due to fast repair time



Elimination of costly oil leakage