L&T Technology Services

VIBRATION FIELD TESTING FOR COMPRESSOR

SCOPE

- Analyse the field failure of compressor at the low frequency condition.
- Determine acceleration vs frequency at the critical locations.
- Design changes based on the results from the base model.
- Implement changes and perform measurements to confirm that vibration levels are within limits

HIGHLIGHTS

- Identified critical locations where vibration level can be severe.
- Proposed suitable dampened model to reduce the vibration.
- Benchmarked measurements from the older system to validate improvements.
- Identified 27 different sensor mounting locations in the compressor.
- After damping (dampened model), vibration levels of the improved design were contained within desired limits

Copyright © L&T Technology Services