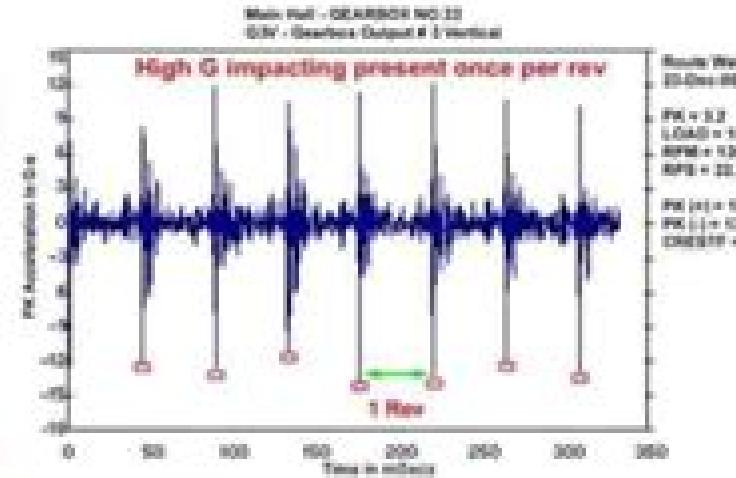
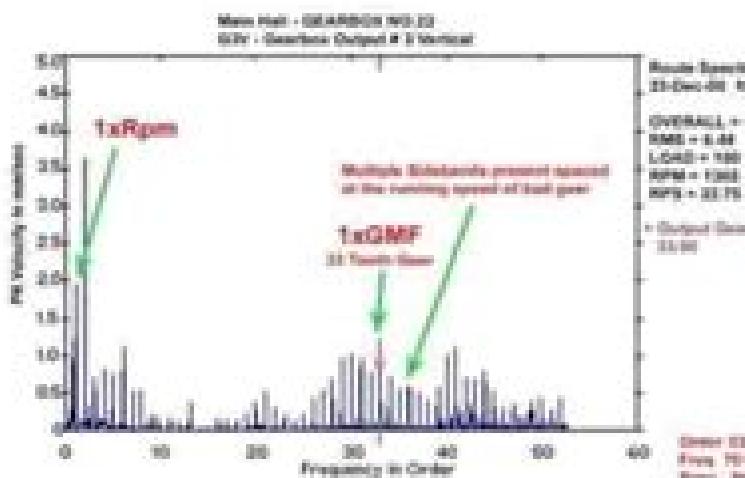
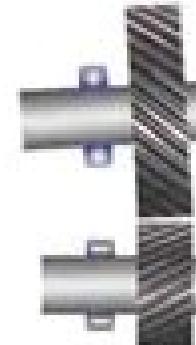
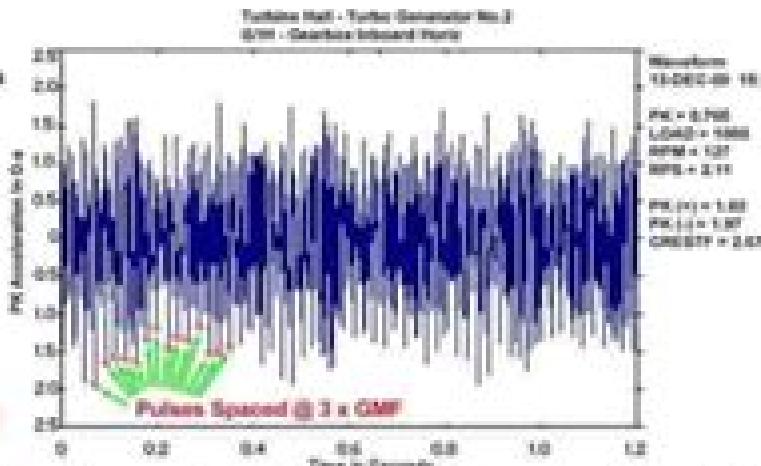
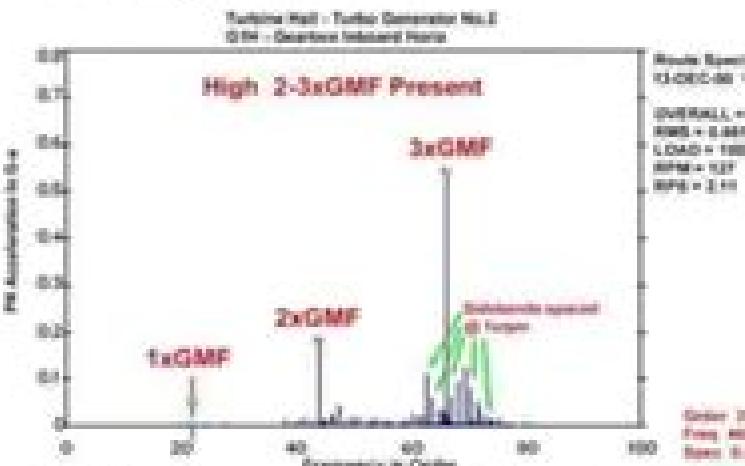


# Chipped / Broken Gear Teeth



A single chipped or broken gear tooth will produce a 1xRPM vibration. It is difficult to identify this problem using c spectral data alone, as the characteristic frequency can easily be confused with other problems occurring at 1xRPM. T of identifying this problem is by using the time domain, where a once per revolution (1xRPM) impact will be generated f ring down from the shaft with the defective gear tooth on. Due to the impacting nature of this fault the time waveform taken in acceleration, ensuring that the time period set-up captures as many shaft revolutions as possible.

## Misaligned Gears



Misaligned gears will generally produce raised vibration amplitudes at 2xGMF and 3xGMF, which will typically be six 1xRPM or 2xRPM. Therefore, it is essential to always capture at least 3.5xGMF when either troubleshooting or taking routi data. In general terms viewing both the time waveform and spectral data in acceleration provides the best representa

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**Joacim Rocklöv**

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