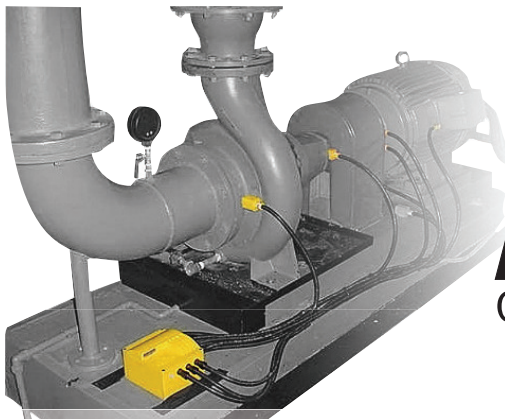


Motornostix®
Critical Machine Condition Monitoring

MOTORNOSTIX (Pty) Ltd Reg. no. 2000/024321/07

Critical Machine Condition Monitoring

Reduce breakdowns and maintenance costs on production-critical machines

Motornostix® machine monitoring service enables you to:

Manage and reduce operational risks

- Increase production
- Reduce equipment maintenance
- Improve safety

Detect defects at an early stage

- Motor and gearbox failure
- Motor and shaft misalignment
- Gear tooth surface wear and failure
- Loose couplings and mountings
- Bearing failure
- Imbalance

Improve monitoring safety

Reduce breakdowns

Improve availability

Receive early warning of impending problems

Motornostix® machine monitoring service provides:

- Continuous online data logging
- Measurement of vibration, temperature, motor current, stray flux and rotational speed
- Identification and investigation of trend and spectral anomalies
- Establishing base-line operating norms for critical machine health
- Regular machine health reports

Fault conditions investigated by Motornostix® include

- Bearing surface damage
- Rotor imbalance
- Gear tooth surface wear
- Gear shaft misalignment
- Excessive loading
- Temperature trends
- Time domain correlation

Motornostix® Machine service monitors

- Pump
- Motor
- Fan
- Gearbox

Payback

The expected payback is achieved in:

- Reduction of machine-related production down-time
- Reduction of machine maintenance costs
- Safer machine operation

Motornostix® can identify

Bearing surface damage

Rotor imbalance

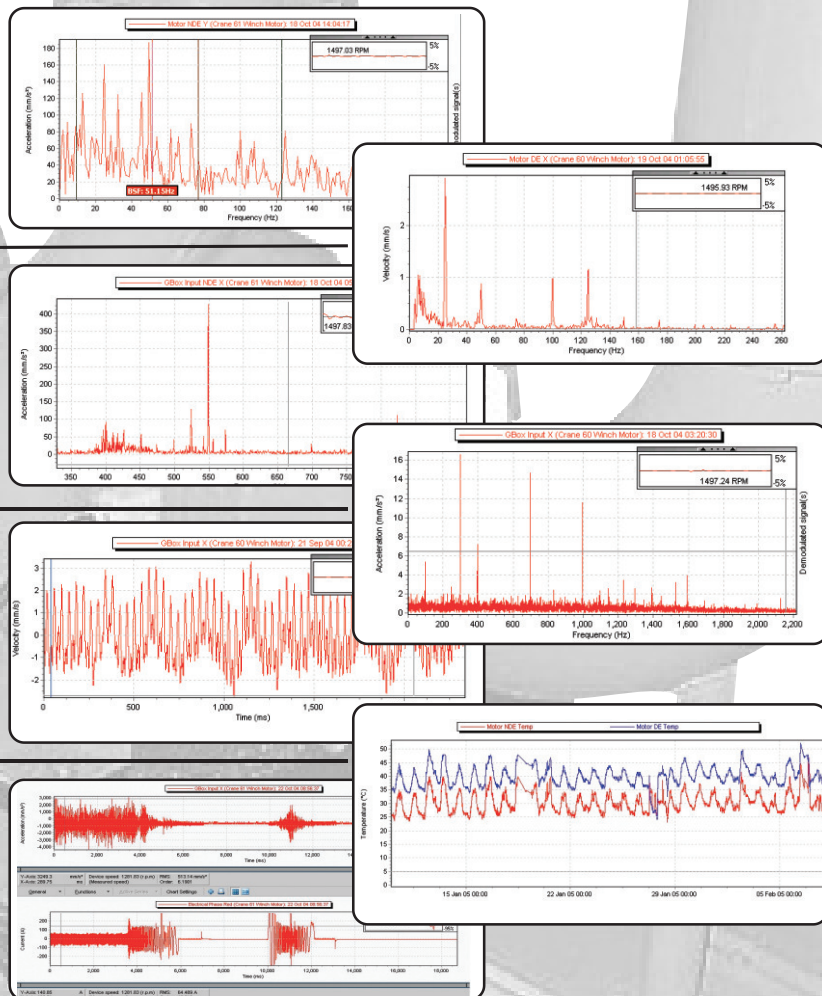
Gear tooth surface wear

Gear shaft misalignment

Excessive loading

Temperature trends

Time domain correlation



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