

motornostix[®]
Critical Machine Condition Monitoring

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

CRANE MONITORING

Reduce breakdowns and maintenance costs on production cranes

Motornostix® crane monitoring service enables you to:

Manage and reduce operational risks

- Increase production volume
- Reduce equipment maintenance
- Improve personnel safety

Motornostix® crane monitoring features:

- Continuous online data logging
- Measurement of vibration, temperature, motor current, stray flux and rotational speed
- Identification and investigation of trend and spectral anomalies
- Establishing baseline operating levels for crane health
- Client alert notification
- Regular crane health reports

Detect defects at an early stage

- Bearing, gearbox and brake overheating
- Motor and shaft misalignment
- Gear tooth surface wear and failure
- Loose couplings and mountings
- Bearing failure
- Motor and shaft imbalance

Fault conditions investigated by

Motornostix® include

- Lubrication overheating
- Bearing damage
- Shaft misalignment
- Mechanical looseness
- Imbalance
- Brake temperature
- Gear damage

Reduce crane breakdowns

Receive early warning of
impending problems

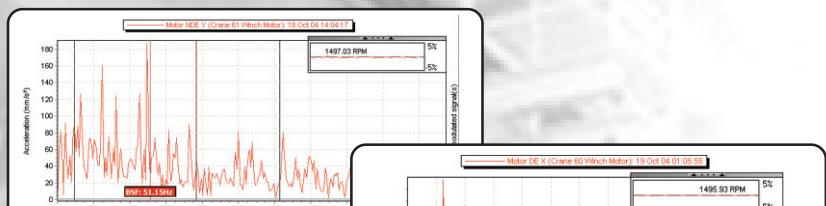
Improve monitoring safety

Motornostix® crane service monitors

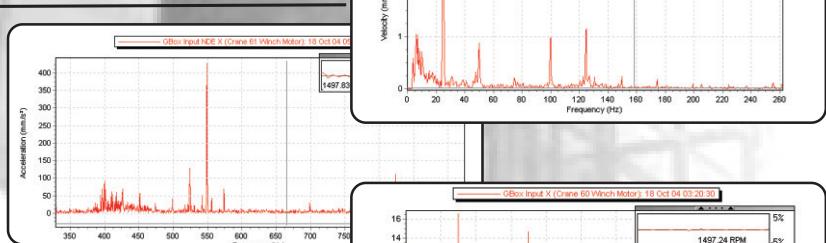
- Hoist motor and gearbox
- Auxiliary hoist and gearbox
- Cross travel motor and gearbox
- Long travel motors and gearboxes

Motornostix® can identify

Bearing surface damage ←



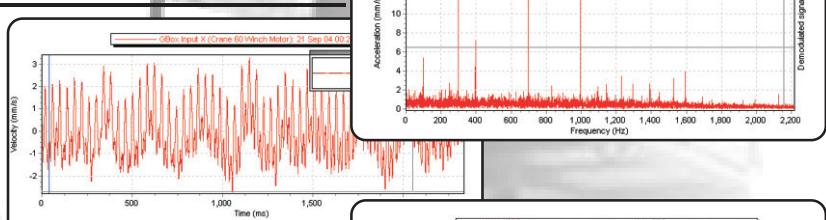
Rotor imbalance ←



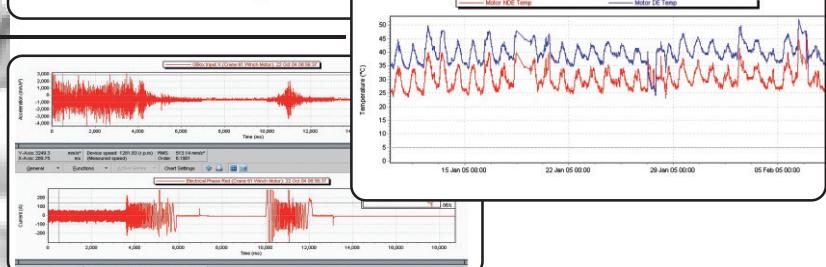
Gear tooth surface wear ←



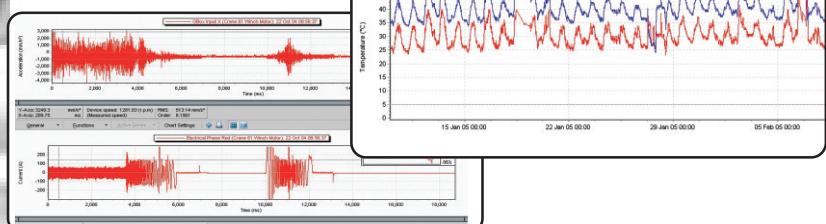
Gear shaft misalignment ←



Excessive loading ←



Temperature trends ←



Time domain correlation ←

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