Seatrax Hoist Inspection Requirements

**Gear Reducer Internal Inspections**

Disassembly and internal inspection of the gear reducer components during annual inspections or other routine inspection intervals is NOT REQUIRED and is NOT RECOMMENDED.

Disassembly and internal inspection of the gear reducer components is only required if any of the following conditions are encountered during operation:

- Strange or unusual noises
- Unusual or sudden increase in the surface temperature of the gear housing
- Substantial leakage of gear lubricant
- Unusual amounts of metal or other contaminants in the gear lubricant

Please note that all gearing can be removed, inspected and replaced without removing the wire rope or the hoist drum or removing the hoist from its mount. All disassembly and reassembly must be done in accordance with the procedures contained in the crane's operation and maintenance manual.

**Gear Reducer Lubricant Inspections**

The hoist should be visually examined during each pre-use inspection for external leakage of the gear reducer lubricant. Appropriate action should be scheduled and remedy the cause of any observed leakage. Lubricant should be immediately returned to an acceptable level.

The lubricant should be checked on a regular basis for unusual amounts of metal or other contaminants. The result of these checks should be documented. The quality of the hoist lubricant is considered a primary indicator of the mechanical integrity of the gear reducer components.

**Spring-Set Hoist Brake Component Inspections**

Disassembly and internal inspection of the brake actuator components during annual inspections or other routine inspection intervals is NOT REQUIRED and NOT RECOMMENDED.

Disassembly and internal inspection of the brake actuator components is only required if any of the following conditions are encountered during operation:

- Failure to pass the spring-set hoist brake test, unless such failure is because of problems with external
hydraulic system components

- “Creep” or unintentional payout of the hoist cable
- “Chatter” or rough operation unrelated to the hydraulic counter balance valve (a separate component mounted to the hydraulic motor)
- Hydraulic fluid leakage other than hose or fittings

Please note that all spring-set hoist brake components can be removed, inspected and replaced without removing the wire rope or the hoist drum or removing the hoist from its mount. All disassembly and reassembly must be done in accordance with the procedures contained in the crane’s operation and maintenance manual.

**Hardware and Miscellaneous Component Inspections**

The following components should be visually inspected on a regular basis. Any deficiency should be immediately corrected as applicable.

- Hoist mounting bolts (where applicable)
- Hammer nut drum retainer
- Hammer nut locking plate and bolts
- Brake band live end bushing and cotter key
- Brake lever and retaining bolt
- Brake linkage pins and cotter keys
- Brake band
- Brake end drum shaft bearing
- Wire rope dead end connection
- Ratchet and dog components (where applicable)