Industry Application Examples

**Oil and Gas – Offshore**
- Hydraulic Power Unit (HPU) at platform or Ship
- Compressor and gas turbine
- Subsea systems

**Oil and Gas – Onshore**
- Compressor and gas turbine
- Pipeline management

**Iron and Steel Industry**
- Continuous casting line
- Straightening systems
- Plate rolling and slitting mill
- Cutting-off machine

**Pulp and Paper**
- Wet end section
- Press section
- Dryer section
- Size and film press
- Winding, rotary cutter, packing machine

Special Requirements of the Industry

The industry of raw material extraction and processing has very special requirements for the hydraulic and lubricating oil system:
- Rough environmental conditions (e.g. seawater)
- Aggressive operating media
- Marine approval required
- Permanent operational readiness
- Maximum machine availability and safety
- Easy handling and leakage minimisation for safe and efficient system operation
- Preliminary planning maintenance intervals and low maintenance costs

**Electrostatic Discharges**

Dangers from discharges

- Burned filter elements
- Discharges outside of the system
- Interference of electronic components
- Increased formation of oil degradation products (varnish)
- Deflagrations in the tank, burned breather filters

A safety concern for equipment operators and system components

If discharges should occur external of the system, arcing can occur in open space which presents a health hazard to system operators as described in the "Technische Regel für Gefahrstoffe" (TRGS 727) Guidelines.

For example, when static electricity results in discharges on the order of 12 mm in length (energy > 350 mJ) a hazard for employees exists as described in TRGS document.

Our solution eliminates static electricity at the source thereby preventing serious safety hazards to equipment operators and system components.

⚠️ Safety of the working environment is jeopardized!

**Solution ➔ Stat-X®**

By using the innovative Stat-X® element technology, you can demonstrably reduce electrostatic discharges and high oil charges even in extremely critical systems with excellent fine filtration.

This results in:
- Maximum safety for employees and machine due to proven reduction of electrostatic arcing
- Reduction of oil degradation products (varnish) and longer oil service intervals
- Longer service life of bearings and prevention of bearing corrosion
- Reduction of unplanned downtimes
- Reduction of maintenance costs and longer maintenance intervals
- Maximum of lifetime of the system

Example

**Turbine lubrication**

**Before**

**After**