

# SPRING CHECKLIST

## Hydraulics & Compressed Air



### HYDRAULIC SYSTEMS

- Check filter elements:** Ensure there are no blockages. Check return, pressure and suction filters.
- Replace filter elements:** For optimal filtration and pressure stability. Check return filters every 2,000 operating hours or annually; check pressure filters every 1,000 operating hours or semi-annually
- Check differential pressure:** Early detection of filter contamination. Limit: >3.5 bar differential pressure → filter replacement
- Check oil quality:** Reduces wear on pumps, valves and bearings. Observe ISO 4406 cleanliness class; perform oil analysis if necessary
- Check hydraulic lines:** Prevent leaks and reduce pressure loss; check seals, hoses and fittings
- Check valves and cylinders:** Ensure proper function. Visual inspection, observe lubrication conditions.
- Monitor operating parameters:** Check efficiency and safety. Monitor temperature, pressure and flow rate.

### COMPRESSED AIR SYSTEMS

- Check main and aftercooler filters:** Prevent blockages and pressure losses. Monitor pressure drop and check the condensate drain.
- Replace filter elements:** Ensure optimal air quality and system protection. Replace compressed air filters annually or when pressure drops.
- Check oil separators:** Protect pneumatic components. Observe manufacturer's instructions; clean / replace oil separators regularly.
- Check compressor oil:** Extend compressor lifespan. Check oil level and quality, and replace oil filters according to manufacturer's specifications (2,000 – 4,000 operating hours)
- Check lines and connections:** Prevent leaks. Check seals and fittings.
- Drain condensate:** Reduce corrosion and wear. Empty condensate drains regularly.

### GENERAL INFORMATION

- Observe ISO standards and filter classes:** Hydraulics: ISO 4406 for oil cleanliness; compressed air: ISO-certified filter classes for particle and oil separation
- Adjust maintenance intervals individually:** Depending on load, medium and operating hours (h)
- Documentation:** Document test results and filter changes to ensure long-term system history.

**Note:** This checklist serves as a guide. For detailed recommendations and suitable filters, please contact the experts at FILCOM GmbH.

