

Hydropneumatic front axle suspension

Task Description: Riding tractor

Tractor drivers undergo whole body vibrations on the road and on the field.

Comments of the employee:

- ❑ 'No comfortable sitting posture'
- ❑ 'Vibrations (seat, quality floor, hand/arm machinery...)'
- ❑ 'Opportunity to have a break or change activity'

MSD risks:

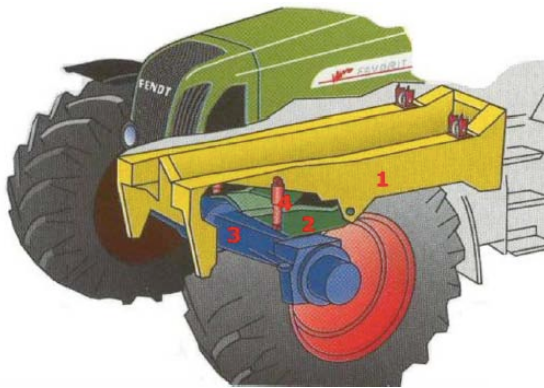
- ❑ Posture
- ❑ Duration
- ❑ Vibrations (whole body or hand/arm)

Exposed areas:

- ❑ Lower back

Solutions:

- ❑ Hydropneumatic front axle suspension (Fendt Vario900)
The system is composed of te nitrogen charged accumulators and two hydraulic cylinders which smooth the ride and provide the maximum suspension travel of 30 cm. If the machine is needed for loader work or front-hitch applications, the suspension can be locked up to provide a firm base.
The front wheels never lose contact with the ground, which means they are always pulling.
Tire hopping on non-suspended front axles otherwise leads to increased tire wear and fuel usage.



- 1: Main frame
- 2: Axle carrier
- 3: Front axle
- 4: Hydraulic cylinder
- 5: Nitrogen accumulator

