

## WHEEL LOADERS

### Description:

Arm, bucket and cylinder joints

### Conditions of use:

- Speed: oscillating move with low speed (about 0,01 m/s)
- Dynamic contact pressure: around 70 MPa + Shocks
- Temperature: ambient
- Use time: 8 hours/day
- Surrounding atmosphere: abrasive on bucket links
- Lubrication: periodic (every 50h up to 500h)

### Previous solution:

- Pin: introduction hardened or case hardened steel
- Bearing: case hardened steel (1) or bronze (2)
- Problem: seizure (1) or wear (2)

### HEF solution:

- Pin: PEL - ST case hardened steel
- Bearing: PEL, PEL BH or PEL T (depending of the location of the joint and of the size of the wheel loaders)

### Customers:

CATERPILLAR

ATLAS WEYHAUSEN

ALHMANN

TAMROCK LOADERS

WERKLUST

SAGEM (Mining applications)

BELL

