

ITEM TYPE Brake Assembly - Conveyor (Hydra)

Functions:

Release on demand.

Stop conveyor on demand.

Failure: Fails to release on demand.

Failure Modes:

Siezed brake calipers.

Incorrect hydraulic pressure.

Pipework or fittings leaking.

Electrical device failure.

Motor failure.

Failure: Fails to stop conveyor on demand.

Failure Modes:

Brake pad wear.

Pump cavitation.

Hydraulic filter is blocked.

Contamination ingress.

Pipework or fittings leaking.

Loose motor mounting.

Motor failure.

Siezed brake caliper.

Disc wear.

Overheating.

Accumulator leakage.

Maintenance:

Type: CBM

Visually inspect brake caliper for any loose/missing fasteners and physical damage. Check for excessive product build-up on braking unit. Clean if required. Report any future maintenance requirements.

Frequency: 2 Weeks

Type: CBM

Inspect hydraulic lines, fittings and calipers for damage or leakage.

Frequency: 3 Months

Type: CBM

Measure each brake pad thickness - min 5mm.

Function test hydraulic brake operation and confirm correct operation. Clean any product build-up as necessary.

Frequency: 3 Months

Type: CBM

Measure air gap between each brake pad and brake disc. Air gap should be 1mm. Report any future maintenance requirements.

Frequency: 3 Months

Type: CBM

Check disc for wear. Measure thickness of brake disc and ensure within manufacturer specifications. Report future maintenance requirements.

Frequency: 1 Years

Type: CBM

Inspect brake disc for glazing, grooves, discolouration, distortion and cracking. Check security of all fasteners. Report any future maintenance requirements.

Frequency: 3 Months

Type: CBM

Check earth connections are secure and free from corrosion. Measure resistance of protective earth back to MCC panel. Clean off any material build-up from motor. Report if further attention is required.

Frequency: 1 Years

Type: FTM

Replace hydraulic brake unit desiccant breather.

Frequency: 1 Years

Type: CBM

Inspect hydraulic brake unit motor to ensure correct operation. Check for excessive heat, noise vibration and looseness. Check cooling fan is unobstructed and air flow present. Clean off any product build-up.
Report any future maintenance requirements.

Frequency: 6 Months

Type: CBM

Inspect accumulator shell for any indication of damage, corrosion or oil leakage. Check accumulator pre-charge pressure is set to _____ bar and adjust if required. Report if bladder cannot maintain pre-charge pressure.

Frequency: 3 Months

Type: CBM

Check and top-up hydraulic brake unit reservoir (if necessary) using Shell Tellus 68.
Report if further attention is required.

Frequency: 1 Months

Type: CBM

Inspect hydraulic brake unit reservoir breather. Desiccant type - Check condition of breather element. Indicator crystals should be RED in colour for normal operation. Report if indicator crystals are ORANGE and breather requires replacement.

Frequency: 1 Months

Type: FTM

Remove and replace hydraulic brake unit oil filter with correct manufacturer recommended replacement filter.
Replace hydraulic fluid with correct manufacturer recommended medium - Shell Tellus 68.

Frequency: 1 Years

Type: CBM

Inspect hydraulic brake unit motor (externally) for loose mounting bolts.
Inspect accumulator and fittings for signs of leakage.
Report any future maintenance requirements.

Frequency: 2 Weeks
