

Check list maintenance préventive



cobas Connection Module (CCM) et modules Aloka

Client : :

n° de série :

Nom IM :

Date :

Type de PM réalisée:

Unité	Action	6 mois	1 an	Remarques
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Général

Enquête de bon fonctionnement auprès des techniciennes	V	<input type="checkbox"/>	<input type="checkbox"/>	
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Module CCM (intégré au cobas p512-p612) :

Vérification et nettoyage

Sensor tray (RF1-I-Tray)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Sensor tray (RF2-I-Tray) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Sensor tray (RF3-I-Tray) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Sensor Start Position (RF1)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Sensor Start Position (RF2) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Sensor Start Position (RF3) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack in loading position 1	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack in loading position 2 (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack in loading position 3 (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Hybrid optical sensor gripper slide (RF1)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Hybrid optical sensor gripper slide (RF2) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Hybrid optical sensor gripper slide (RF3) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack conveyor pos.1	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack conveyor pos.2 (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack conveyor pos.3 (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack at conveyor transfert position Init	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Reflection sensor rack conveyor transfert	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Sensor CCM pullout closed	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Rack feed motor (RFM1)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Rack feed belt (RFM1)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Rack feed motor (RFM2) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Rack feed belt (RFM2) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Rack feed motor (RFM3) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Rack feed belt (RFM3) (optionnel)	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Rack conveyor motor	VN	<input type="checkbox"/>	<input type="checkbox"/>	
Clutch motor rack conveyor (12 mois)	R		<input type="checkbox"/>	
Rack conveyor flat belt	VA	<input type="checkbox"/>	<input type="checkbox"/>	

Lubrification

Rack feed's motor gears/counter bearings	L	<input type="checkbox"/>	<input type="checkbox"/>	
Gripper slide's gear rods/hinges	L	<input type="checkbox"/>	<input type="checkbox"/>	

Nettoyage

Surface of the rack feed module(s)	N	<input type="checkbox"/>	<input type="checkbox"/>	
Surface of the rack conveyor	N	<input type="checkbox"/>	<input type="checkbox"/>	
Trays / drawers	N	<input type="checkbox"/>	<input type="checkbox"/>	

Tests finaux

Routine test or test operation sur 100 tubes	F	<input type="checkbox"/>	<input type="checkbox"/>	
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Check list maintenance préventive (Suite)



Lignes, unités de connexion et modules Aloka

Unité	Action	6 mois	1 an	Remarques
ATU-PVT-AC1 (cobas 6000 connection Unit)				
Unité complète	N		<input type="checkbox"/>	
Linear guides conveyor	L		<input type="checkbox"/>	
Timing belt conveyor	V		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-AC2 (cobas 8000 connection Unit)				
Unité complète	N		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-AC3 (Modular connection Unit)				
Unité complète	N		<input type="checkbox"/>	
Linear guides conveyor	L		<input type="checkbox"/>	
Timing belt conveyor	V		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-AC4 (HST connection Unit)				
Unité complète	N		<input type="checkbox"/>	
Linear guides conveyor	L		<input type="checkbox"/>	
Timing belt conveyor	V		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-AC5 (Bidirectional connection Unit)				
Unité complète	N		<input type="checkbox"/>	
Timing belt transfert mechanism TT3	V		<input type="checkbox"/>	
Flat belt transfert mechanism TT3	V		<input type="checkbox"/>	
Coil springs transfert mechanism TT3	V L		<input type="checkbox"/>	
Sensor transfert mechanism TT3	N		<input type="checkbox"/>	
Flat belt conveyor RD13	V		<input type="checkbox"/>	
Coil springs conveyor RD13	V L		<input type="checkbox"/>	
Sensor conveyor RD13	N		<input type="checkbox"/>	
Flat belt conveyor RD3	V		<input type="checkbox"/>	
Coil springs conveyor RD3	V L		<input type="checkbox"/>	
Sensor conveyor RD3	N		<input type="checkbox"/>	
Linear guides Transfer mechanism RT	L		<input type="checkbox"/>	
Bearing (rack stopper) Transfer mechanism RT	V		<input type="checkbox"/>	
Timing belt transfert mechanism RT	V		<input type="checkbox"/>	
Flat belt transfert mechanism RT	V		<input type="checkbox"/>	
Coil springs transfert mechanism RT	V L		<input type="checkbox"/>	
Sensor transfert mechanism RT	N		<input type="checkbox"/>	
Inside Frame Base	N		<input type="checkbox"/>	
Solenoid latch Frame base	V		<input type="checkbox"/>	
Barcode reader Frame Base	N		<input type="checkbox"/>	
Microswitch Frame Base	V		<input type="checkbox"/>	
Plexiglass Cover	N		<input type="checkbox"/>	
Protection hood Cover	N		<input type="checkbox"/>	
ATU-PVT-LC03 (conveyor 0,31m)				
Unité complète	N		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-LC05 (conveyor 0,5m)				
Unité complète	N		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-LC07 (conveyor 0,69m)				
Unité complète	N		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	

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Lignes, unités de connexion et modules Aloka

Unité	Action	6 mois	1 an	Remarques
ATU-PVT-LC10 (conveyor 1m)				
Unité complète	N		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-LBF05 (Buffer 0,5m)				
Unité complète	N		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-TT (Turn table unit)				
Unité complète	N		<input type="checkbox"/>	
Timing belt conveyor	V		<input type="checkbox"/>	
Flat belt conveyor	V		<input type="checkbox"/>	
Coil springs conveyor	V L		<input type="checkbox"/>	
Plexiglass cover	V N		<input type="checkbox"/>	
ATU-PVT-PB (Power Supply Unit)				
Unité complète	N		<input type="checkbox"/>	
ATU-PVT-MO1 (Output Unit)				
Unité complète	N		<input type="checkbox"/>	
Linear guide Pull-in conveyor	N		<input type="checkbox"/>	
Timing belt Pull-in conveyor	N		<input type="checkbox"/>	
Coupling Pull-In conveyor	V		<input type="checkbox"/>	
Flat belt Pull-In conveyor	V		<input type="checkbox"/>	
Rotary solenoid Pull-In conveyor	V		<input type="checkbox"/>	
Coil springs Pull-In conveyor	V		<input type="checkbox"/>	
Rack guide Pull-In conveyor	V L		<input type="checkbox"/>	
Rack arrival check sensor Pull-In conveyor	V		<input type="checkbox"/>	
Linear guide Drawer	VN		<input type="checkbox"/>	
Acrylic glass window Drawer	N		<input type="checkbox"/>	
Timing belt Drawer	N		<input type="checkbox"/>	
Coupling Drawer	V		<input type="checkbox"/>	
Flat belt Drawer	V		<input type="checkbox"/>	
Rotary solenoid Drawer	V		<input type="checkbox"/>	
Coil springs Drawer	V		<input type="checkbox"/>	
Rack guide Drawer	V L		<input type="checkbox"/>	
Rack arrival check sensor Drawer	V		<input type="checkbox"/>	
Drawer mechanism limit Drawer	VN		<input type="checkbox"/>	
Flexible harness Drawer	V		<input type="checkbox"/>	
rack transfert gap Drawer	V		<input type="checkbox"/>	
Linear guide (Z axis) Elevator	V		<input type="checkbox"/>	
Timing belt (Z axis) elevator	N		<input type="checkbox"/>	
Timing belt motor elevator	V		<input type="checkbox"/>	
Flat belt elevator	V		<input type="checkbox"/>	
Rotary solenoid elevator	V		<input type="checkbox"/>	
Coil springs Elevator	V		<input type="checkbox"/>	
Rack guide Elevator	V L		<input type="checkbox"/>	
Rack arrival check sensor Elevator	V		<input type="checkbox"/>	
Flexible harness (Z axis) Elevator	VN		<input type="checkbox"/>	

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Lignes, unités de connexion et modules Aloka

Unité	Action	6 mois	1 an	Remarques
ATU-PVT-MO1 (Output Unit) - Suite				
Shutter mechanism whole Elevator	V		<input type="checkbox"/>	
Shutter mechanism (Guide) Elevator	V		<input type="checkbox"/>	
Shutter mechanism (Stopper) Elevator	V		<input type="checkbox"/>	
Inside Frame Base	V		<input type="checkbox"/>	
Drawer lock solenoid Frame Base	N		<input type="checkbox"/>	
Drawer slide rail Frame Base	V		<input type="checkbox"/>	
Drawer mechanism limit Frame Base	N		<input type="checkbox"/>	
Solenoid latch cover	V		<input type="checkbox"/>	
Microswitch Cover	V		<input type="checkbox"/>	
Protection Barrier Cover	V		<input type="checkbox"/>	
Protection Barrier (Stopper) Cover	V		<input type="checkbox"/>	
Protection Barrier (Cushion) Cover	V		<input type="checkbox"/>	
Table Cover	V		<input type="checkbox"/>	
Table Cover (Stopper)	V		<input type="checkbox"/>	
Switches Cover	V		<input type="checkbox"/>	
ATU-PVT-AOB (AddOn Buffer)				
Unité complète	N		<input type="checkbox"/>	
Linear Guide (X-Axis) (X-Axis mechanical parts)	L		<input type="checkbox"/>	
Timing belt (X-Axis mechanical parts)	V		<input type="checkbox"/>	
Ball Spline (manipulator) (X-Axis mechanical parts)	L		<input type="checkbox"/>	
Coupling (Manipulator) (X-Axis mechanical parts)	VL		<input type="checkbox"/>	
Rack transfert Y sensor (X-Axis mechanical parts)	VN		<input type="checkbox"/>	
Rack arrival check sensor (X-Axis mechanical parts)	VN		<input type="checkbox"/>	
Rack existence check sensor (X-Axis mechanical parts)	VN		<input type="checkbox"/>	
Linear guide (Y-Axis) (YZ-Axis mechanical parts)	L		<input type="checkbox"/>	
Ball Spline (Y-Axis) (YZ-Axis mechanical parts)	L		<input type="checkbox"/>	
Timing belt (Y-Axis) (YZ-Axis mechanical parts)	V		<input type="checkbox"/>	
Coupling (Y-Axis) (YZ-Axis mechanical parts)	VL		<input type="checkbox"/>	
Flexible harness (Y-Axis) (YZ-Axis mechanical parts)	V		<input type="checkbox"/>	
Y-Axis motion check (YZ-Axis mechanical parts)	V		<input type="checkbox"/>	
Linear guide (Z-Axis) (YZ-Axis mechanical parts)	V		<input type="checkbox"/>	
Timing belt (Z-Axis) (YZ-Axis mechanical parts)	V		<input type="checkbox"/>	
Flexible harness (Z-Axis) (YZ-Axis mechanical parts)	V		<input type="checkbox"/>	
Z-Axis motion check (YZ-Axis mechanical parts)	V		<input type="checkbox"/>	
Linear guide (Rack Pull-in part)	L		<input type="checkbox"/>	
Timing belt (Rack Pull-in part)	V		<input type="checkbox"/>	
Flat belt (Rack Pull-in part)	V		<input type="checkbox"/>	
Rotary solenoid (Rack Pull-in part)	V		<input type="checkbox"/>	
Coil springs (Rack Pull-in part)	VL		<input type="checkbox"/>	
Rack guide (Rack Pull-in part)	V		<input type="checkbox"/>	
Rack arrival check sensor (Rack Pull-in part)	VN		<input type="checkbox"/>	
Barcode reader (Rack Pull-in part)	N		<input type="checkbox"/>	
Rack transfert gap (Supply) (Rack Pull-in part)	V		<input type="checkbox"/>	
Rack transfert gap (Bi-direction) (Rack Pull-in part)	V		<input type="checkbox"/>	
Rack transfert gap (Eject) (Rack Pull-in part)	V		<input type="checkbox"/>	
Linear guide (Bi-direction) (Rack traverse)	L		<input type="checkbox"/>	
Timing belt (Bi-direction) (Rack traverse)	V		<input type="checkbox"/>	
Coupling (Bi-direction) (Rack traverse)	NL		<input type="checkbox"/>	
Pusher head (Gate) (Rack traverse)	V		<input type="checkbox"/>	
Bi-direction pusher motion (Rack traverse)	V		<input type="checkbox"/>	

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Unité	Action	6 mois	1 an	Remarques
ATU-PVT-AOB (AddOn Buffer) - Suite				
Linear guide Eject (Rack traverse)	L		<input type="checkbox"/>	
Timing belt Eject (Rack traverse)	V		<input type="checkbox"/>	
Coupling (Eject) (Rack traverse)	VL		<input type="checkbox"/>	
Pusher head (Eject) (Rack traverse)	V		<input type="checkbox"/>	
Eject pusher motion (Rack traverse)	V		<input type="checkbox"/>	
Inside unit (Frame base)	N		<input type="checkbox"/>	
Slide rail (Rack traverse)	V		<input type="checkbox"/>	
Separation plate (Rack traverse)	V		<input type="checkbox"/>	
Rack gear (Rack traverse)	L		<input type="checkbox"/>	
Solenoid latch (Cover)	V		<input type="checkbox"/>	
Microswitch (Cover)	V		<input type="checkbox"/>	
Protection barrier (Unit rear) (Cover)	V		<input type="checkbox"/>	
Switches (Cover)	V		<input type="checkbox"/>	
Power supply module PB2	N		<input type="checkbox"/>	
FINAL CHECK				
Routine sur 100 tubes	C	<input type="checkbox"/>	<input type="checkbox"/>	

Légende: C: contrôler/nettoyer R: remplacer A: ajuster F: à faire L: lubrifier

Dans le cadre de notre système QSE, Roche Diagnostics France s'engage à :
 - utiliser des appareils de mesures soumis à des contrôles adaptés. (chap 7.6 « maîtrise des équipements de surveillance et de mesure » de la norme ISO 90001). Notre certification ISO apporte la preuve de cette maîtrise.
 - réaliser à l'issue de chaque intervention SAV terrain, les tests préconisés par le fabricant. (instruction " validation post intervention")
 Le laboratoire devra suivre ses procédures habituelles pour la remise en production.