



Preventive Maintenance Service Plan

The Motoman Preventive Maintenance Service Plan is designed to augment customers with a preventive maintenance strategy. The Preventive Maintenance Service Plan can help identify impending performance issues with robots in production to ensure that they are addressed before affecting production downtime.

Plan Includes

- PM checklist will be submitted to customer at time of service.
- Complete inspection of manipulator and controller.
- Monitor robot in normal production.
- Perform grease analysis testing.
- Lubrication of manipulator.
- Inspection of internal wiring harness.
- Provide reports on grease analysis and preventive maintenance performed, along with recommendations for the continued performance of robots in production.



Preventive Maintenance & Grease Analysis Report Examples

MOTOMAN PREVENTATIVE MAINTENANCE SERVICE REPORT		Customer P. O. No.
Customer	Controller	WOW / Basis Order #
Contact Name	Manipulator	Software Version
Date	Serial Number	Application Type
Technician	Warranty ID#	Service Hours
MAINTENANCE SERVICE REQUESTED Preventative Maintenance Package <input type="checkbox"/> Extended Preventative Maintenance Package <input type="checkbox"/> Other <input type="checkbox"/>		
Manipulator Electrical Wire Harness Inspection <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Motor Cable Lead Inspection <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Base Cables <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Exterior Damage <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Servo On Lamp <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Over-Torque Limit Switch <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Wind Chain <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA S, L, U Absolute Data Battery <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA R, B, T Absolute Data Battery <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Wire Harness Replacement <input type="checkbox"/> NA <input type="checkbox"/> Replaced		
Mechanical Link Arms <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Base Flange Bolts <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Cover Screws Present <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Plug Resistor & Verified <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Home Position Calibration <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA		
Driveline Belt <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Pulley <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Vibration <input type="checkbox"/> Yes <input type="checkbox"/> No S Axis <input type="checkbox"/> Yes <input type="checkbox"/> No L Axis <input type="checkbox"/> Yes <input type="checkbox"/> No U Axis <input type="checkbox"/> Yes <input type="checkbox"/> No R Axis <input type="checkbox"/> Yes <input type="checkbox"/> No B Axis <input type="checkbox"/> Yes <input type="checkbox"/> No T Axis <input type="checkbox"/> Yes <input type="checkbox"/> No		
Grease Completed <input type="checkbox"/> Yes <input type="checkbox"/> No Visual Leaks <input type="checkbox"/> Yes <input type="checkbox"/> No Condition <input type="checkbox"/> Good <input type="checkbox"/> Poor <input type="checkbox"/> Bad Sampled <input type="checkbox"/> Yes <input type="checkbox"/> No S Axis <input type="checkbox"/> Yes <input type="checkbox"/> No L Axis <input type="checkbox"/> Yes <input type="checkbox"/> No U Axis <input type="checkbox"/> Yes <input type="checkbox"/> No R Axis <input type="checkbox"/> Yes <input type="checkbox"/> No B Axis <input type="checkbox"/> Yes <input type="checkbox"/> No T Axis <input type="checkbox"/> Yes <input type="checkbox"/> No		
Controller Data Backup <input type="checkbox"/> Complete <input type="checkbox"/> Not Complete CMOS Battery <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Absolute Data Battery <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Absolute Data Numbers (on Door) <input type="checkbox"/> OK <input type="checkbox"/> Not OK Alarm History <input type="checkbox"/> NA <input type="checkbox"/> See Notes Cabinet Control <input type="checkbox"/> Complete <input type="checkbox"/> Not Complete Servo Pack & CPU Cooling Fans <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Cabinet Cooling Fans (Rear & Door) <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA		
Teach Pendant Upper & Lower Casing <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Application Overlay <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA 3 Position Enable Switch <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA LCD Screen (Touch Screen) <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Emergency Stop Button <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Teach Pendant Hanger <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Hand Strap <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Pendant Cable & Connections <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA		
Playback Box Emergency Stop Button <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Start Button & Light <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Hold Button & Light <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Teach Mode Button <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Play Mode Button <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA Remote Mode Button <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> NA		
Notes Name _____ Date _____ Signature _____		

Motoman Inc. Grease Analysis Report		Customer	John Doe Corp
		Case #	68666
		Robot Model #	YR-UP350-A00
		Robot Serial #	N/A
PM Date	12/13/2008		
Servo Hours	30000		
		Recommendations	
AXIS	Weight %	Judgement	Counter Measure
1: S	0.01	Within Normal Range	Continue current grease management practices
2: L	0.02	Within Normal Range	Continue current grease management practices
3: U	0.03	Within Normal Range	Continue current grease management practices
4: R	0.02	Within Normal Range	Continue current grease management practices
5: B	0.02	Within Normal Range	Continue current grease management practices
6: T	0.04	Within Normal Range	Continue current grease management practices