In order for a system to have a long service life, you have to employ procedures for cleanliness control. MP Filtri can advise on a Proactive Maintenance Strategy for stabilising the reliability of your system.

**PREVENTATIVE MAINTENANCE:**

Contamination by water.

**PREDICTIVE MAINTENANCE:**

MP FILTRI'S market leading Contamination Monitoring Products (CMP) will help you determine whether maintenance is required. Our CMP range enables customers to manage an Oil Analysis programme - safely monitoring the condition of your hydraulic systems and warnings of possible mechanical problems.

**CONTAMINATION CONTROL SOLUTIONS**

- Competitive prices
- Increased life of system components
- Local technical specialists
- Onsite analysis & full status report with a customised corrective/preventive action plan
- Cost savings
- Reduced downtime
- Fewer breakdowns
- Flexibility in supply

MP Filtri's proven track record for delivering complete contamination control solutions has established it as a global manufacturing leader in the hydraulic market. Specialising in Particle Counters and Filtration, MP Filtri provides bespoke engineering solutions that are application orientated to meet your requirements.

**Contamination Monitoring Products**

Only 10 grams of Test Dust (MTD) are needed to take 10,000 litres of hydraulic fluid to ISO 19/17/14 (the level which could potentially cause breakdowns).

Common occurrences associated with contamination:

- ✗ Mechanical wear
- ✗ Corrosion
- ✗ Loss of protective coatings on components
- ✗ Internal leakage

Fluid Cleanliness
In order for a system to have a long service life, you have to employ procedures for cleanliness control. MP Filtri can advise on a Proactive Maintenance Strategy for stabilising the reliability of your system.

PREVENTATIVE MAINTENANCE:
Contamination by water.

PREDICTIVE MAINTENANCE:
MP FILTRI'S market-leading Contamination Monitoring Products (CMP) will help you determine the condition of your hydraulic system and issue appropriate warnings of possible mechanical problems.

DON'T LEAVE IT UNTIL IT'S TOO LATE!!
Visit our website or call one of our experts today. We’ve got over 50 years of experience and MP Filtri’s proven track record for delivering complete contamination control solutions has established it as a global manufacturing leader in the hydraulic market.

Specialising in Particle Counters and Filtration, MP Filtri provides bespoke engineering solutions that are application orientated to meet your requirements. We offer a range of services, including:

- Competitive prices
- Increased life of system components
- Local technical specialists
- Onsite analysis & full status report with a customised corrective/preventive action plan
- Cost savings
- Reduced downtime
- Fewer breakdowns
- Flexibility in supply

Common occurrences associated with contamination:
- Mechanical wear
- Clogging of needles, orifices & valves
- Corrosion
- Increase in fluid temperature
- Change in fluid compressibility
- Loss of protective coatings on components
- Internal leakage

Contamination within a system will affect the performance characteristics of the fluid such as additive package depletion. This in turn can lead to decreased lubricity and higher friction, resulting in temperature increases, reduced system efficiency, and increased wear on system components.

In worst cases, contamination can lead to the complete failure of a system.

Contamination Monitoring Products

Only 10 grams of Test Dust (MTD) are needed to take 10,000 litres of fluid to ISO 19/17/14 (the level which could potentially cause breakdowns).
In order for a system to have a long service life, you have to employ procedures for cleanliness control.

MP Filtri can advise on a Proactive Maintenance Strategy for stabilising the reliability of your system.

**PREVENTATIVE MAINTENANCE:**
This includes inspecting breather caps, breather filters, checking air filter clogging indicators and inspecting the hydraulic fluid inside the reservoir for signs of wear and contamination by solids.

**PREDICTIVE MAINTENANCE:**
MP Filtri’s market leading Contamination Monitoring Products (CMP) will help you determine the condition of the operating fluids and accurately predict when maintenance should be performed. Our CMP range enables customers to manage an Oil Analysis programme – safely monitoring the condition and performance of all the operating fluids within and raising early warning of possible mechanical problems.

- Cost savings
- Reduced downtime
- Fewer breakdowns
- Flexibility in supply
- Competitive prices
- Increased life of system components
- Local technical specialists
- Onsite analysis & full status report with a customised corrective/preventive action plan

MP Filtri’s proven track record for delivering complete contamination control solutions has established it as a global manufacturing leader in the hydraulic market.

Specialising in Particle Counters and Filtration, MP Filtri provides bespoke engineering solutions for your filtration applications. We are application orientated to meet your requirements.

**DON’T LEAVE IT UNTIL IT’S TOO LATE!!**
Visit our website or call one of our experts today. We’ve got over 50 years of experience and expertise in hydraulic system cleanliness control and filtration!

...because contaminations costs!
When contamination is the problem...

MP Filtri have the solution!

Application Examples

Mobile Crushing & Screening - Maintenance area

- Backhoe loader - Maintenance area
- Mobile Crushing & Screening - Maintenance area

Hydraulic System Fluid Care & Maintenance

- HYDRAULIC SYSTEMS
  - Hydraulic systems are designed to transmit power/force from one point to another by pressurising an incompressible fluid.
  - Hydraulic fluid is used for the purposes of lubrication, power transmission, surface protection, heat transfer and surface cleansing.
  - The hydraulic fluid is the lifeblood of the hydraulic system.
  - To maintain the cleanliness of fluid, the use of filters is critical to remove any contaminant left in the system.

Features & Benefits

- ✔ Increases productivity
- ✔ Lowers repair costs
- ✔ Reduces system downtime
- ✔ Optimises handling of spare parts
- ✔ Easy to use

It is no secret that 80% of breakdowns in hydraulic systems are due to contamination. This contamination is generally made up of solid contaminant due to either wear and tear, ingress from adding "new" oil into the hydraulic system or inadequate system cleanliness during the manufacturing process.

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Application Examples

- Mobile Crushing & Screening - Maintenance area
  - ICM & control box

- Hydraulic reservoirs with MPS Spin-On for diesel
- Fluid hose reels with ICM particle counter

✔ Increases productivity
✔ Lowers repair costs
✔ Reduce system downtime
✔ Optimise handling of spare parts
✔ Cuts costs associated with downtime
✔ Boosts reliability
✔ Easy to use

It is no secret that 80% of breakdowns in hydraulic systems are due to contamination. This contamination is generally made up of solid contaminant due to either wear and tear, ingress from adding "new" oil into the hydraulic system or inadequate system cleanliness during the manufacturing process.

Hydraulic System Fluid Care & Maintenance

Hydraulic systems are designed to transmit power/force from one point to another by heat transfer and surface cleansing.

Contaminant still left in the system.

VPAF 100
- Patch test kit
  - Self-contained oil analysis sampling kit
  - Visual patch testing
  - All-inclusive product

ACMU Auxiliary Contamination Monitor
- Self-priming particle counting via integrated pump and manifold design
- Variants for non pressurized/pressurized systems of lube oil/gear box applications
- Aeration suppression, allows for improved contamination monitoring
- Live real-time monitoring

AZ2 In-line Contamination Monitor
- Live real-time monitoring
- Calibrated to relevant ISO standards
- Manual, automatic and remote control flexibility
- Various communication protocols as standard
- Memory of 4000 test records

LPA2 Twin Laser Particle Counter
- Fully portable + lightweight
- Full-size QWERTY keyboard + onboard thermal printer
- Calibrated to relevant ISO standards
- Compatible with various hydraulic fluids
- FREE LPA View software Windows based

CML2 Compact Laser Particle Analyzer
- Compact + lightweight
- Calibrated to relevant ISO standards
- Compatible with various hydraulic fluids
- Full accessories kit included

LPA3 Portable Particle Counter
- Fully programmable to meet end-user applications
- Larger and selectable sample volume (up to 150ml) for optimum accuracy
- Provides live trend analysis via the full-color high-resolution 3.5" touchscreen display
- Greater storage capacity – stores up to 4000 tests
- Automatically downloads test results via USB connection
- Enhanced long-life rechargeable lithium battery
- Robust and durable copolymer case

ICM 2.0 In-line Contamination Monitor
- Live real-time monitoring
- Calibrated to relevant ISO standards
- Manual, automatic and remote control flexibility
- Various communication protocols as standard
- Memory of 4000 test records

BS110 & BS500 Bottle Samplers
- Fluid de-aeration capability
- Compatible with the full range of Contamination Monitoring Products
- BS110: designed specifically for portable onsite testing
- BS500: designed for laboratory applications

UFM Mobile Filtration Units
- Various power options
- ICM 2.0 options available
- Various flow rates available
- Various filtration and reservoir options

AZ2 Portable Particle Counter
- Fully programmable to meet end-user applications
- Larger and selectable sample volume (up to 100ml) for optimum accuracy
- Provides live trend analysis via the full-color high-resolution 10.1" touchscreen display
- Greater storage capacity – store up to 4000 tests
- Automatically downloads test results via USB connection
- Enhanced long-life rechargeable lithium ion battery
- Robust and durable copolymer case
When contamination is the problem...

...MP Filtri have the solution!

Application Examples

Mobile Crushing & Screening - Maintenance area

ICM & control box

LMD 951 series installed on the entry to the bulk oil tank - oil deliveries from Backhoe loader - Maintenance area

Hydraulic reservoirs with MPS Spin-On for diesel, Fluid hose reels with ICM particle counter

✔ Increases productivity
✔ Lowers repair costs
✔ Reduce system downtime
✔ Optimise handling of spare parts
✔ Cuts costs associated with downtime
✔ Boosts reliability
✔ Easy to use

It is no secret that 80% of breakdowns in hydraulic systems are due to contamination. This contamination is generally made up of solid contaminant due to either wear and tear, ingress from adding "new" oil into the hydraulic system or inadequate system cleanliness during the manufacturing process.

Hydraulic System Fluid Care & Maintenance

Hydraulic systems are designed to transmit power/force from one point to another by heat transfer and surface cleansing. The contaminant still left in the system can be problematic. MP Filtri offers a range of products to address these issues:

BS110 & BS500

Mobile Filtration Units

- Various power options
- ICM 2.0 options available
- Various flow rates available
- Various filtration and reservoir options

ACMU

Auxiliary Contamination Monitor

- Self-priming particle counting via integrated pump and manifold design
- Variants for non-pressurized/pressurized systems of lube oil/gear box applications
- Aeration suppression, allows for improved contamination monitoring
- Live real-time monitoring

VPAF 100

Patch test kit

- Self-contained oil analysis sampling kit
- Visual patch testing
- All-inclusive product

ACMU

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When contamination is the problem...

When contamination is the problem...

MP Filtri have the solution!

Application Examples

Mobile Crushing & Screening - Maintenance area

Hydraulic reservoir with LMF 411 in-line duplex filters

Backhoe loader - Maintenance area

Hydraulic reservoir with LMP 210 in-line filters and MPS 355 Spin-on for diesel, engine oil, adblue fluid

Mobile Filtration Units

• Various power options
• ICM 2.0 options available
• Various flow rates available
• Various filtration and reservoir options

LPA2

Twin Laser Particle Analyser

• Fully portable – lightweight
• Full size ICM2.0 keyboard + integrated thermal printer
• Calibrated to relevant ISO standards
• Compatible with various hydraulic fluids
• FREE ICM live software Windows based

BS110 & BS500

Bottle Samplers

• Fluid-in-air capability
• Calibrated as part of the full range of Contamination Monitoring Products
• BS110: designed specifically for portable remote testing
• BS500: designed for laboratory testing

ICM 2.0

In-line Contamination Monitor

• Live real-time monitoring
• Calibrated to relevant ISO standards
• Manual, automatic and remote control flexibility
• Various communication protocols as standard
• Atex Zone II 3G

AZ2

In-line Contamination Monitor

• Live real-time monitoring
• Calibrated to relevant ISO standards
• Manual, automatic and remote control flexibility
• Various communication protocols as standard
• Atex Zone II 3G

CML2

Compact Laser Particle Analyser

• Compact – lightweight
• Calibrated to relevant ISO standards
• Compatible with various hydraulic fluids
• Full accessories kit included

ACMU

Auxiliary Contamination Monitor

• Self-priming particle counting via integrated pump and manifold design
• Variants for non-pressurised/pressurised systems of lube oil, gear oil applications
• Aeration suppression, allows for improved contamination monitoring
• Live real-time monitoring

LPAF 100

Patch test kit

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Hydraulic System Fluid Care & Maintenance

Hydraulic systems are designed to transmit power/force from one point to another by pressurising an incompressible fluid. Hydraulic fluid is used for the purposes of lubrication, power transmission, surface protection, heat transfer and surface cleaning. This hydraulic fluid is the lifeblood of the hydraulic system.

To maintain the cleanliness of fluid, the use of filters is critical to remove any contaminant still left in the system.

Features & Benefits

✔ Increases productivity
✔ Lowers repair costs
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✔ Optimise handling of spare parts
✔ Easy to use

It is no secret that 80% of breakdowns in hydraulic systems are due to contamination. This contamination is generally made up of solid contaminant due to either wear and tear, ingress from adding “new” oil into the hydraulic system or inadequate system cleanliness during the manufacturing process.
Worldwide Network

Contamination Control Solutions

WORLDWIDE NETWORK

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Contamination Monitoring Products...

...because contamination costs!

ONLY 10 grams of Test Dust (MTD) are needed to take 10,000 litres of perfectly clean fluid (0/0/0) to ISO 19/17/14 (the level which could potentially cause breakdowns).

Having clean fluid is imperative to improve your systems performance and reliability! The latest hydraulic systems are defined by the system specification, these are typically reported in a specification reporting format e.g. ISO 4406.

Common occurrences associated with contamination:
- Mechanical wear
- Clogging of nozzles, orifices & valves
- Corrosion
- Increase in fluid temperature
- Change in fluid compressibility
- Loss of protective coatings on components
- Internal leakage

Contamination is a threats to your systems performance and reliability. We can help you.

FM Filtri’s proven track record for delivering complete contamination control solutions has established it as a global manufacturing leader in the hydraulic market. Specialising in Particle Counters and Filtrations, FM Filtri provides bespoke engineering solutions for your filtration applications. We are application-oriented to meet your requirements.

Contamination Monitoring Products...

...because contamination costs!

Contamination is a threats to your systems performance and reliability. We can help you.

HOW WE CAN HELP YOU

In order for a system to have a long service life, you have to employ procedures for cleanliness control.

PASSION TO PERFORM

MP Filtri can advise on a Protective Maintenance Strategy for stabilising the reliability of your system.

PREVENTATIVE MAINTENANCE:

This includes inspecting breather caps, breather filters, checking all filter ebenfalls indicators and inspecting the hydraulic fluid inside the reservoir for signs of wear and contamination by water.

MP Filtri’s proven track record for delivering complete contamination control solutions has established it as a global manufacturing leader in the hydraulic market. Specialising in Particle Counters and Filtrations, MP Filtri provides bespoke engineering solutions for your filtration applications. We are application-oriented to meet your requirements.

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Visit our website or call one of our experts today. We've got over 50 years of experience and expertise in hydraulic systems cleanliness control and filtration!