



CCS4 – CONTAMINATION CONTROL SYSTEM

- Online particle counter with laser sensor for hydraulic oils and lubricants
- High-precision measurement system for mobile use directly on the plant from 1.5 bar up to 420 bar, and for static analysis of oil samples using BSS2 equipment
- Detection of purity classes in accordance with standards: ISO 4406:99, ISO 4406:87, NAS 1638
- Data storage via USB or RS-232 option
- Equipped with LabVIEW software for data management on external computer (Excel export)



WAS 01 – WATER-IN-OIL ANALYSIS SET

- Determination of water content in oil
- Detection of condensation in reservoir



STEP 01 – SAMPLING AND OIL ANALYSIS SET

- Inspection of hydraulic fluids and lubricants
- Identification of type of contamination
- Microscopic inspection of fluid sample on membrane



OIL TREATMENT EQUIPMENT FOR HYDRAULIC AND LUBRICATION SYSTEMS

- Filter unit for fine filtration in recirculation or off-line, refilling and oil change
- Flow rates from 15 to 320 l/min
- Filtration from 1 micron absolute



IVS 01 - MULTIFUNCTION SENSOR FOR OIL CONDITION MONITORING

- Used to monitor oil condition in hydraulic and lubrication systems.
- Detection of oil ageing and composition.
- Detection of changes in viscosity, temperature and related dielectric values prior to potential failure
- Option to schedule monitoring automatically to optimise servicing
- Easy installation with G 3/4" thread



WSH 01 – WATER ANALYSIS SENSOR

- -Measurement of water saturation level in the fluid as a percentage



FLUID PURIFICATION SYSTEM – OIL SERVICE

IFPM – FLUID PURIFIER SYSTEM

- Removal of free, dissolved and emulsified water
- Removal of free and dissolved gases
- Removal of dirt particles up to 1 µm in size
- Reduction of plant downtimes
- Reduction in the number of component failures
- Reduction in the need for fluid replacement
- Increased plant reliability
- Improved productivity
- Available in two sizes for flow rates of 30 or 70 l/min



EFFECTS OF WATER CONTAMINATION

Water contamination is one of the most frequent types of contamination and, as a harmful substance, water is second only to particulate contamination.

Some of the potential damage caused by water contamination is:

- Fluid deterioration
- Additive depletion
- Reduction of the lubricating properties of liquids
- Oil oxidation
- Internal corrosion
- Abrasion wear of system components
- Reduced electrical resistance



Unit with Web remote control, touch display and USB interface

FACTORS AFFECTING PURIFICATION

The time required for the process of purifying the fluid from water depends primarily on the type of fluid. Other factors that affect the speed of the purification process are:

- Temperature
- Vacuum
- Initial quantity of water
- Additives
- Flow rate

Our fluid analysis and purification services are carried out by trained, professional staff who are available to respond to your every need and query.

PURITY REQUIREMENTS FOR COMPONENTS IN HYDRAULIC AND LUBRICATION SYSTEMS

Type of system / field of application / component	Recommended purity class		Recommended filtration
	ISO	NOS	Micron
Sistemi sensibili alla contaminazione finissima con servoidraulica Very fine contamination-sensitive systems with servo-hydraulics	15/13/10	2-3	1 VG
Idraulica industriale / Industrial hydraulics -Tecnologia proporzionale / Proportional technology -Sistemi ad alta pressione / High-pressure systems	17/15/12	3-4	3 VG
Idraulica mobile industriale / Industrial and mobile hydraulics -Tecnologia di comando con elettrovalvole / Solenoid control valve technology -Sistemi a media e bassa pressione / Medium-pressure and low-pressure systems	18/15/12 19/16/14	4-5 4-6	6 VG
Idraulica mobile e industriale con basse esigenze di protezione dell'usura Industrial and mobile hydraulics with low requirement for wear protection	20/18/15	7-8	10 VG
Lubrificazione a circolazione forzata meccanismi Forced circulatory lubrication on mechanisms	18/16/13	4-5	6 VG
Olio nuovo New oil	21/19/16	7-9	16 VG
Pompe – Motori / Pumps – Motors -Pompa a stantuffo assiale / Axial piston pump -Pompa a pistoni radiali / Radial piston pump -Pompa a ingranaggi / Gear pump -Pompa a palette / Vane pump	18/16/13 19/17/13 20/18/15 19/17/14	4-5 4-6 7-8 4-6	6 VG 6 VG 10 VG 6 VG
Valvole / Valves -Valvole distributrici / Directional valves -Valvole di mandata / Pressure valves -Valvole distributrici di flusso / Flow control valves -Valvole antiritorno / Check valves -Valvole proporzionali / Proportional valves -Servovalvole / Servo valves	20/18/15 19/17/14 19/17/14 20/18/15 18/16/13 16/14/11	7-8 4-6 4-6 7-8 4-5 3-4	10 VG 6 VG 6 VG 10 VG 6 VG 3 VG
Cilindro Cylinder	20/18/15	7-8	10 VG