



A breakthrough in oil monitoring technology



Key Features & Benefits

ENVIRONMENTAL BENEFITS

Harmful, expensive and needless oil changes are now also entirely avoidable.

'JUST IN TIME' MAINTENANCE

Real-time monitoring enables immediate action, before any harm is done to the machine or the oil.

CUT OIL COSTS

Reduced disposal costs for waste oil; reduced replacement costs for new oil.

REDUCE SERVICING COSTS

TanDelta puts you in charge. Oil change decisions are now based on oil condition, not on historical schedules.

Over 75% of all system failures can be traced to fluid contamination...

The requirement to implement an effective monitoring and maintenance programme for lubricants in critical plant machinery has never been greater. With the escalating price of crude oil and the vast improvements in the quality of today's lubricants, it is more important than ever for organisations to ensure that they are maximising the service life of the oil used. Monitoring the condition of the oil is clearly fundamental to choosing the optimal time to change

Change too early and the cost is significant – change too late and the costs can be even greater.

“A reliable means of monitoring the condition of engine oil will permit a new kind of just-in-time maintenance, and that could save millions of quarts of oil a year”

John DeGaspari,
“Recording oil's vital signs”.
Mechanical Engineering
Magazine.



Key Facts

ENVIRONMENTAL

Strict schedule based maintenance programmes have several downsides. Environmental experts argue that the greatest of these is preventable waste – the TanDelta real-time oil condition sensor makes extending oil service effortless.

MARKET LEADING

TanDelta is 30 times more sensitive to oil contamination than any other dielectric constant measuring sensor.

UNIVERSAL

Reliably measures contamination in all industrial equipment, including;

- Diesel and petrol engines
- Compressors
- Industrial gear reducers
- Wind turbines
- Generator sets
- Hydraulic systems.

ROBUST

Resistant to high temperatures, vibrations and pressures up to 10 bar.

INTELLIGENT

The TanDelta oil sensor derives its name from the measurement term for the energy loss component of oil permittivity. All contaminants such as metallic particles, soot, water, oxidization, glycol and partially burnt fuel dilution increase the value of the TanDelta measurement parameter.



Technical Specifications

ANALOGUE OUTPUTS	4-20mA
COMMUNICATIONS	CAN, RS232 & RS485
CONNECTIONS	Standard 1/2" bsp male thread (alternate thread sizes available on request)
DETECTION	Oil condition (0-100 oil quality units)
FLUID COMPATIBILITY	Mineral & synthetic oils (or any lubricating oils)
FLUID TEMPERATURE	-10 TO 110°C (-14 TO 230°F)
INPUTS	Calibration by push button or contact closure
MAX FLUID PRESSURE	10 BAR (145) PSI
OPTIONS	Various cable lengths can be accommodated with mating connector. Alternative connection options and standalone display unit available by request
POWER SUPPLY	9-30 VDC
PROTECTION	IP67
RANGE	0-100 OIL Q units
REPEATABILITY	3%
WEIGHT	160g
OUTPUT CONNECTION	Industry standard 6 pin connector

