

# MECHANICAL BREAKDOWN

## AVOIDING THE PITFALLS

Unplanned maintenance wastes

**TIME & MONEY**



**2** IN **3**

manufacturers aren't aware of the true cost of **downtime**



downtime can account for **OVER 20%** of total manufacturing costs



(that's like having your **entire workforce** off for **over 10 weeks** per year!)

Did you know that the new condition monitoring sensors from Spectrum report all the signs of **gearbox** and **transmission** failure?

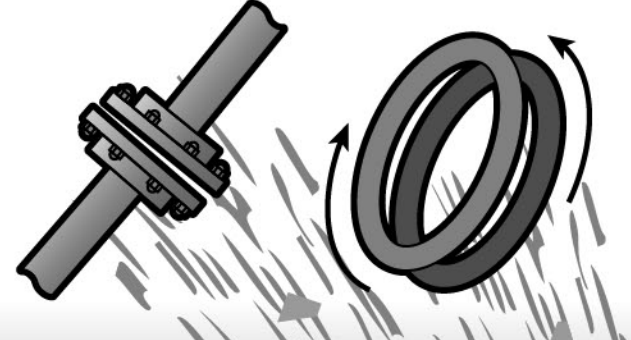
(think of it as a "smart" magnetic drain plug)

MISALIGNMENT

SEALS

BEARINGS

SHAFT FRET



OVERLOAD

CONTAMINATION

GEARS

POOR LUBRICATION



**FINE DEBRIS**

1 - 850um

"MAINTENANCE INTERVAL"

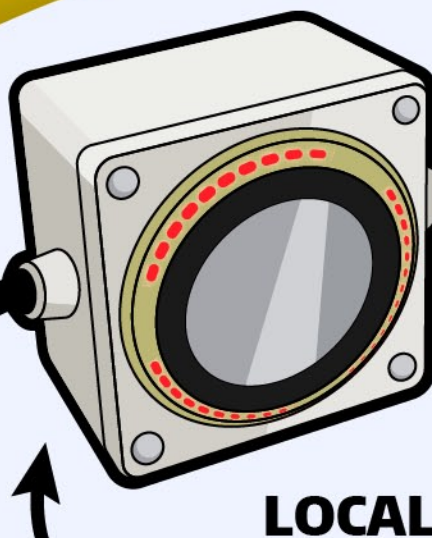
**COARSE DEBRIS**

0.5mm - 358mm

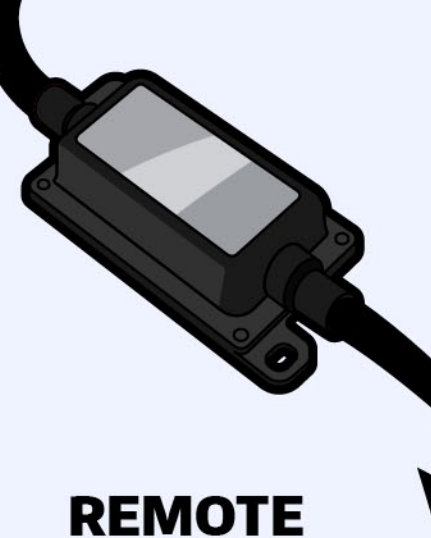
"FAILURE WARNING"

INSTALLED IN OIL LINE

INSTALLED IN SUMP



**LOCAL READOUT**



**REMOTE ELECTRONICS**



REDUCE DOWNTIME.  
INCREASE RELIABILITY.  
REDUCE COSTS.

