MetalSCAN
On-Line Oil Debris Monitor
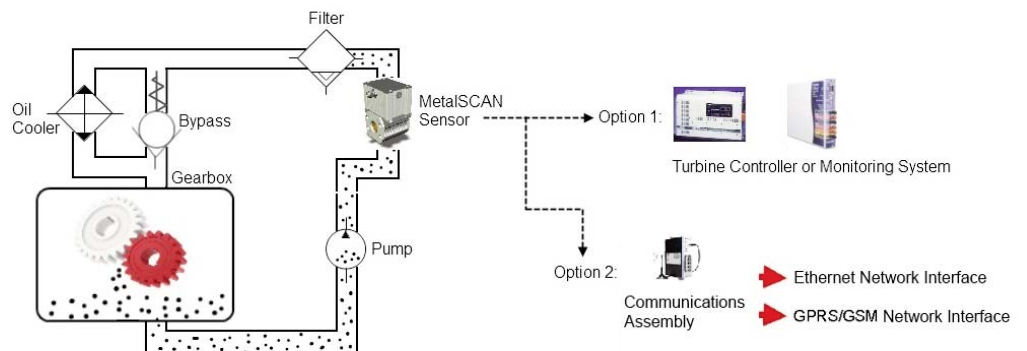# Clipper Liberty Wind Turbine Application

MetalSCAN, an oil debris detection monitoring sensor for the Clipper Liberty wind turbine gearbox lubricating oil system, consists of a full-flow sensor installed into the oil system before the filter manifold inlet.

The MetalSCAN sensor is designed to be easily mounted in-line between the pump and filter using the appropriate MetalSCAN installation kit. The sensor can then be wired from its terminal block to the existing monitoring system, if fitted, or can be interfaced directly to a MetalSCAN Communications Assembly for wireless GPRS or Ethernet network connection. Simply follow the step-by-step installation instructions included with the MetalSCAN package. Installation of a MetalSCAN to a Clipper Liberty can be completed in less than 2 hours per turbine.

Installation on Clipper Liberty Wind Turbine

GASTOPS

WE VIEW MACHINERY FROM A DIFFERENT PERSPECTIVE

Ordering Information

MetalSCAN 3115 Sensor Module   Order: Sensor-3115

Including: 38mm bore and -24 SAE J518 (Code 61) 4-bolt flanges, one side flange with 225 O-ring groove, 1x 225 O-ring, 20 bar max pressure, 5 msec pulse width, integral electrical connection terminal block, user's manual, 12 month warranty.

INSTALLATION KIT (select one)

Kit for Lube System 'Configuration A'   Order: Install-A-Liberty2.5x

Including: 4x extended mounting bolts, 4x lock washers, and 2x 225 series O-rings; 12 month warranty.

Lube System 'Configuration A'
(flex hose from filter manifold)

Kit for Lube System 'Configuration B'   Order: Install-B-Liberty2.5x

Including: 4x extended mounting bolts, 4x mounting bolts,8x lock washers, 2x 225 series O-rings, 1x adapter flange, and 1x hose assembly; 12 month warranty.

Lube System 'Configuration B'
(rigid pipe from filter manifold)

OPTIONS

MetalSCAN Cable   Order: Cable-3003x

Communication Wire between MetalSCAN Series 3000 Sensor and power supply/host system – 4 conductor (per 30 m. roll), 12 month warranty.

MetalSCAN Series 3000 GPRS Communications Assembly   Order: Alarm-3006x

Including: Particle counting, particle count resetting, BIT monitoring, wireless GPRS/GSM Modem, built-in Ethernet port, configurable for ModBUS TCP, OPC and/or database interface, 24VDC input power, DIN Rail, Terminal Strip, 10m cable for connection to MetalSCAN sensor, user's manual, 12 month warranty.
Note: 1) SIM card and GPRS/GSM data account is not included.

MetalSCAN Series 3000 Ethernet Communications Assembly   Order: Alarm-3007x

Including: Particle counting, particle count resetting, BIT monitoring, built-in 2 port Ethernet switch, configurable for ModBUS TCP, OPC and/or database interface, Web configuration, 24VDC input power, DIN Rail, Terminal Strip, 10m cable for connection to MetalSCAN sensor, user's manual, 12 month warranty.

Enclosure for Alarm-3006x or Alarm-3007x   Order: Alarm-3008x

Including: Fiberglass NEMA 4 enclosure, L 254mm x W 203mm x H 203mm, 12 month warranty.