

## 1 Introduction

This manual covers use and operation of the Ferrous Wear Meter (FWM). The instrument provides an accurate means of detecting and measuring the quantity of ferrous material, such as iron or steel, suspended in a fluid e.g. oil. The rugged, compact and stable meter delivers reliable data quickly and simply, ensuring fast, accurate and consistent management of lubricating oil samples.

Condition monitoring of machinery lubricants is an established method of predicting and avoiding impending machinery breakdown. Worn components can be identified early and replaced before any serious damage occurs. Production can be maintained, machinery life extended and the return on capital investment increased.

The FWM is an important tool for optimisation of cylinder oil feed rates for slow-speed diesel (two-stroke) engines and can be used, in conjunction with other products in the Parker Kittiwake range, to develop a much deeper understanding of health and operating parameters of these engines. Please see **Section 13** for more information.

### Key to Symbols



**Caution**



**Note** - important information and helpful hints and tips

## 2 Safety Summary

Please read and understand this user document before attempting to use the FWM.

### Caution

- Never use the FWM near highly combustible gases or liquids.
- While the FWM is designed to be usable without any special training or qualification, this does not negate requirements for any specific training or qualifications required by the owner/operator of the location where the FWM is used.
- If the FWM is used in a manner or for a purpose, other than that described in this manual, any safety protection may be impaired.



**Warning!** This equipment has not been approved for use in an explosive atmosphere.