

Portable Oil Condition Monitoring (P-OCM) Device

On site, real time, lab quality oil results.

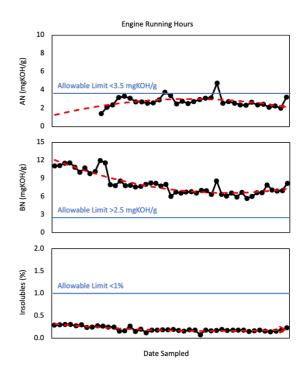


Product Sheet

RAB Microfluidics Unit 5, Energy Development Centre Aberdeen Science and Technology Park Bridge of Don, Aberdeen AB23 8GD The RAB Microfluidics P-OCM device permits onsite real-time chemical and physical property analysis of lubricating oil obtained from machinery. This P-OCM device allows users to obtain an output of four parameters (TAN, TBN, Insolubles and Viscosity) after each sample run, and enable multiple measurements per day for multiple machinery. Frequent measurements permit the trending of machine condition data giving users the ability to monitor engine health over time. These parameters capture three failure modes:

- Contamination
- Degradation
- Wear

Data collected from the P-OCM Device are uploaded to the RAB-Microfluidics Cloud Analytics Platform, where users can view data from multiple devices across managed assets. This gives valuable insights into machine performance allowing key operational decisions to be made.



Portable Oil Condition	Monitoring I	Device – Key Features
Operating temperature +	18°C to 30°C	Amhient +4°C to 45°C

Dimensions H 33cm x W 28cm x D 27cm

Enclosure Material Stainless Steel **Power Supply** 110v or 220v

Temperature Range

Air Pressure 96KPa ± 10PKa for Marine application

Connectivity Ethernet interface with RJ45 connection suitable for CAT5/6

Moscuromonto

Visual Display 5 inch touch screen

	ivieasurements	Limit of Detection	Repeatability.
Total Acid number (TAN)	measure of acid content in oil	0.05 mgKOH/g	±12% of mean
Total Base Number (TBN)	measurement of alkaline reserve in oil	2.5 mgKOH/g	±5% of mean
Insolubles Content	measure of total insoluble and soot content in oil	0.1%	±10% of mean
Viscosity	measure of oil resistance to flow	20 cSt @ 40°C	±10% of mean

^{*95%} of measurements fall within repeatability limited reported.



Key Benefits:

- Automated sample process
- Real-time sampling and analysis

Limit of Dotoction

Popostability*

- Continuous data streams
- Trending of machine data
- Eliminates risk of sample mix-up
- Lower environmental footprint, reducing transport, oil sample and solvent volumes
- Lower cost of more regular sampling

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