

ASTM D2272, ASTM D4742, ASTM D7098, ASTM D942

Pasol Oxidation Stability Analyzer is a fully automated oxygen pressurized dry vessel to evaluate the oxidation stability of new and used oils in the presence of water and a copper catalyst coil at 150°C according to ASTM D2272 (RPVOT), D2112, D4742, D942 and IP229 standards.

Oxidation stability is a chemical process that occurs when lubricating oil is effected by oxygen. High working temperature, water, acids, and catalysts speed up the oxidation process. Remaining life of a lubricant is shortened especially at high temperatures. Additionally, oxidation causes an increase in the viscosity, as well as varnish and sludge deposits. Oxidation in oils, such as lubricating, hydraulic, pump, etc. is one of the main causes of mechanical malfunction. Therefore monitoring oxidation resistance of oils helps preventing machinery break downs.

Pasol Oxidation Stability Analyzer automatically conducts the rotating pressure vessel oxidation test (RPVOT) to measure the oxidation resistance of oil samples. The device is a stand-alone unit, ready to go, without the need of an external PC for any operations as measurement, washing or to check analysis history. Windows based wide-screen touch panel PC is designed to control the unit with a user-friendly interface.



Key Benefits

Sensitive Temperature Control: 0.01°C temperature control sensitivity within wide temperature range.

Automatic Operation: Fully automated oxygen pressure regulation, heating, measurement, calibration and cleaning.

Real-time Monitoring: Real time monitoring of pressure, chamber and sample temperature with graphical interface during the analysis.

Precise Measurement: Achieve highest accuracy with unattended analysis.

Reporting: Graph and analysis data report transfer to USB and PC environment whenever required.

Cooling: Built-in coil for fast cooling of the test chamber.

User-Friendly Interface: Windows based touch screen panel and device software for simplified operation.

Data Integration: Easily export and integrate your data with lab management systems.

Safety: Built-in over temperature and over pressure interlocks

Economic: Lower solvent consumption by full automatic washing and drying system.

Specifications

Methodology	ASTM D2272, ASTM D4742, ASTM D7098, ASTM D942
Analysis chamber	Stainless steel dry vessel
Rotation	Magnetic contactless rotation
Temperature range	Up to 200°C
Temperature sensitivity	0.01°C
Temperature stability	0.05°C
Time detection precision	0.01 s
Pressure Unit	bar / psi / kPa
Sample volume	50 mL
Cleaning	Automated chamber cleaning
Display	7" Touch panel screen
Data transfer	USB & Ethernet (RJ45)
Cooling	Embedded cooling coil
Security	Over pressure & over temperature interlocks
Weight	40 Kg
Dimensions	30 x 40 x 40 cm
Power requirement	220 VAC – 50 Hz
CE Mark	