QUANTUM® SAMPLE EXTRACTION DEVICE

Part # 200035

THE PRODUCT

Includes the Extraction Probe Syringe, Reaction Lid with Valve and Sleeve, Reaction Lid Cover, and the Vent Valve

PURPOSE

The open-face, non-liquid bath design of the Quantum permits easy access to extract small amounts of sample during the test for further analysis of the oxidative progress or to inject additional materials into the sample in situ.

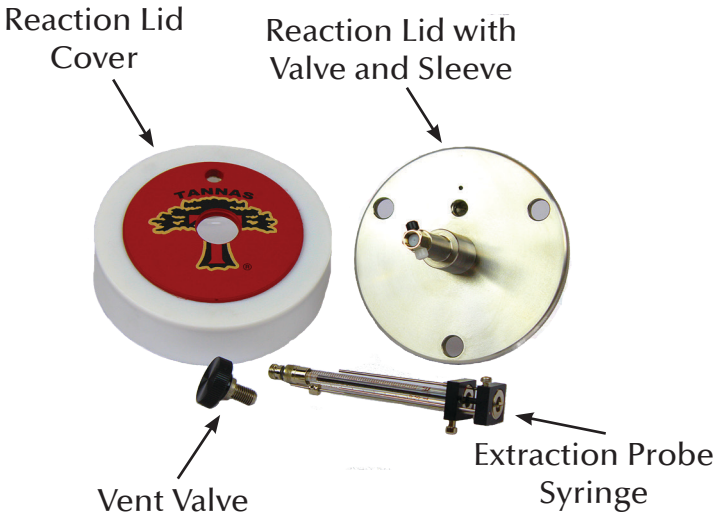
FEATURES

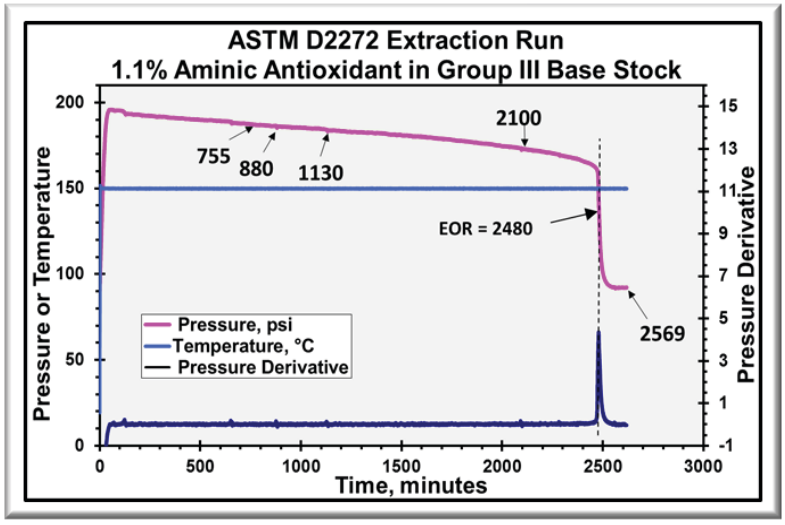
A. Quick and easy access to the sample
B. Progressive sampling of test oil
C. Extract or Inject into sample in situ

TRACK AND MONITOR OXIDATION RESISTANCE

The Quantum is a uniquely designed instrument for determining the oxidation resistance of new and in-service turbine oils as well as other lubricants in various condition monitoring and research and development applications requiring an isothermal pressurized environment. The test methods the Quantum has been utilized for include: ASTM D2272, D2112, D4742 and D942.

As shown in the graph, using our specialized Sample Extraction Device, periodic extractions can be made during a test run (at temperature and pressure) and analyzed with FTIR to determine the specific rate of oxidation degradation, varnish precursor increase and/or mechanics of sludge formation in the particular turbine application in which the oil is being used. Similarly, of keen interest to turbine operators and additive manufacturers, the injection of materials into the test fluid has the potential of finding ways of maintaining the turbine oil in use.





4800 James Savage Rd.,
Midland, MI, 48642, USA

tannas@savantgroup.com
www.TannasKing.com

© 2021 Tannas Co. | QSED-01 | Printed in USA