

MATERIAL REQUISITION for FTIR

SCOPE

Complete FTIR system for qualitative and quantitative analysis of used lubricating oils.

TECHNICAL REQUIREMENTS

1. Fourier-transform infrared spectrometer
 - Wavelength range : Mid IR region (4000 – 350 cm^{-1})
 - Wavelength Accuracy: max 0,05 cm^{-1}
 - No alignment requirement
 - Dial Path technology
 - Factory set path lengths between 30 – 1000 microns
 - Suitable for qualitative and quantitative analysis
 - Able to handle liquids of varying viscosity and volatility
 - Easy cleaning without disassembling
2. Laptop suitable for software operation
 - Software for instrument control and data handling
 - Preloaded and pre-calibrated method DIN EN 14078 (FAME content)
3. Compact design
4. Benchtop

INSTALLATION

The apparatus shall be supplied ready for use.

Installation and training are included in the scope of supply

CODES AND STANDARDS

CE certified.

RESPONSIBILITY OF VENDOR

Vendor shall be responsible for the supply, testing, delivery and satisfactory operation of the equipment.

The Vendor shall list all exceptions and deviations to any requirements of this Material Requisition and documents referenced. In the absence of such a statement, full compliance will be assumed.

WARANTEES

Vendor shall warrant that design, operating conditions, equipment and materials supplied meet the requirements of this requisition and codes referred.

Warranty period shall be at least three (3) years.

SPARE PARTS

Vendor shall provide spare part list for two years operation and the price for these items.

Vendor shall guarantee hardware parts sufficiency and software support for at least 10 years.

OPERATION AND MAINTENANCE INSTRUCTIONS

Vendor shall provide complete and detailed operation and maintenance manuals (parts list, installation manual, user manual etc.). These manuals shall include detailed operation, maintenance and calibration procedures and troubleshooting guide for specific problems.

CALIBRATION

Calibration certificate shall be supplied.

AFTER SALES SUPPORT

Full technical support and response to malfunction cases should be provided within 48 hours.

DELIVERY TERMS

DAP delivery,

1. Collection Center VOLOS, B' VIPE.
2. Collection Center HERAKLION, VIPE.

Further Address Details will be submitted to Vendor

Vendor must provide short time of Equipment delivery.

TECHNICAL PROPOSAL

Technical Proposal should include the following information:

1. Technical data sheet with all specifications of the proposed apparatus including signal-to-noise ratio, accuracy of wavenumber, repeatability, scan time, spectra resolution, interferences.
2. Brief description of analysis procedure.
3. Regular maintenance requirements and cost.
4. Calibration requirements and cost.
5. Included accessories.
6. Consumables.
7. Utility Requirements.
8. Weight & Dimensions.
9. Delivery time.
10. Customer list in Greece and abroad for this specific apparatus.