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1984 - 2004



# ROTROIL

**ROTROIL, SPECTROMETER FOR SYMULTANEUS ANALYSIS OF WEAR METALS, CONTAMINANTS AND ADDITIVES IN LUBRICATING OILS, HYDRAULIC FLUIDS AND REFRIGERANTS**



## APPLICATIONS :

**Military / Commercial fleets**

**Civil and Military Aviation**

**Public / Private Transportation Companies**

**Railways**

**Engines Service Centers**

**Power Plants**

**Mining**

**Oil Recyclers**

**Production Plants**

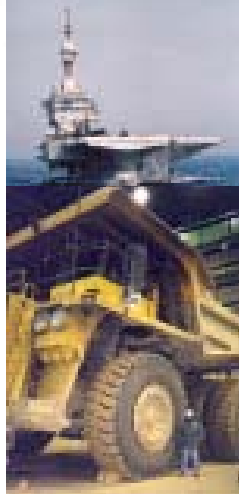
**ROTROIL** is an optical emission spectrometer specially designed to analyse trace wear metal elements , additives and contaminants into lubricating oils, transmission and fluids and coolants.

This information is of extreme importance to prevent possible failures thanks to a predictive maintenance program.

Thanks to our 20 years old experience into the spectrometry field, it is now possible to offer a modern instrument combining the classic Rotating Electrode Technique with the most updated hardware and software technology.

**ROTROIL** is an extremely reliable, accurate and robust instrument accordingly to the international norms.

**ROTROIL** is manufactured as portable and stationary unit.





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## APPLICATIONS

### LUBRICANTS

This technique is applicable to any closed lubricating system like gasoline and diesel engines, transmission and gear boxes, compressors, turbines, hydraulic appliances.

Using only few millilitres of sample it is possible to determine in 30 seconds the concentration of several wear metals produced by the moving metal parts as well as additives and external pollutants. The analysis of the concentrations of the single elements allow the operator to take the proper action in order to prevent damages to the engine.

The possibility to establish a predictive maintenance reduces the risk of faults, engine stops, increase the security level of the.

It is also very helpful in order to reduce or postpone the lubricant replacement, decreasing the operating costs and the environmental pollution.

### COOLANTS

ROTROIL can be calibrated also to analyse coolant fluids in order to evaluate the cooling process parameters as cooling efficiency. It can also give information about corrosion phenomena reducing the maintenance costs.

It is of extreme importance the determination of the heavy metals concentration in order to evaluate the proper actions when the cooling fluid has to be wasted or regenerated.

### PRODUCTION

Today's production processes are more and more extreme and fast. In many applications the use of high performance lubricating oils targeted for specific applications is nowadays very common.

Using ROTROIL during the production process can help to keep under control the quality and the quantity of additives in order to increase the oil performances or the presence of some polluting element.

### ENVIRONMENT

Recovery and recycling of exhaust lubricating oils is today a very important environmental challenge.

Having the possibility to analyse in less than 30 seconds batches of exhaust oils permits to determine the level of pollution in terms of heavy metals.

With this information it is possible to evaluate the proper actions saving time and money.

It is evident the positive effect of such kind of analysis in terms of money saving and environmental protection.

