

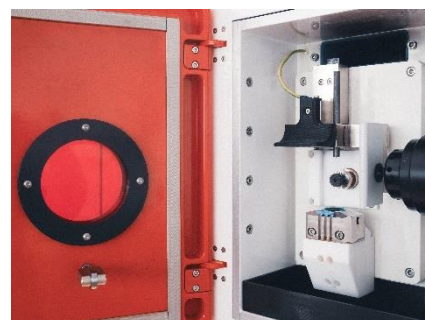
- **ASTM D6595
Lubricating Oils
and Hydraulic
Fluids**
- **ASTM D6728
Gas Turbine and
Diesel Engine Fuel**
- **Up to 34 elements
in 30 seconds**
- **CMOS detector
for sub-ppm LOD**
- **Stand-alone design:
Built-in IPC,
touchscreen,
sharpener & vent**
- **Smallest, lightest
and most rugged
housing for lab and
on-site applications**
- **Special calibrations
for lube oil, fuels,
coolants, process
water, grease, and
mineral water**

ERAOIL is the first and most advanced stand alone atomic emission spectrometer analyzing wear metals, additives, and contaminants in all kinds of operating liquids, like lubricating oils, fuels, coolants, process water, etc.



High-precision Oil & Fuel Analysis

ERAOIL is fully compliant with ASTM D6595 for determination of wear metals and contaminants in used lubricating oils or used hydraulic fluids by rotating disc electrode atomic emission spectrometry and with ASTM D6728 for determination of contaminants in gas turbine and diesel engine fuel by rotating disc electrode atomic emission spectrometry.



Smallest Footprint with built-in PC

ERAOIL's unique stand-alone design offers a rugged all-in one package for operation even in smallest on-site testing labs. It comes with a built-in industry-proven 10" color touchscreen and a state-of-the-art industry PC. Even the electrode sharpener and ventilation system are integrated in the analyzer. Up to 34 elements are measured fully automatically within 30 sec.



Wear Metals and Contaminants					
Application	Basic	Lubricants	Extended Option	Coolant	Fuels
Ag	0-100	0-1000			
Al	0-1000	0-1000		0-50	0-900
As			0-1000		
B	0-1000	0-1000	0-6000	0-1000	
Ba	0-1000				
Bi			0-1000		
C				0-50	
Ca	0-3000	0-6000	>20000	0-50	0-900
Cd	0-1000	0-1000			
Ce			0-1000		
Co			0-1000		
Cr	0-1000	0-1000			0-900
Cu	0-1000	0-1000		0-50	0-900
Fe	0-1000	0-1000		0-50	0-900
H				0-50	
In			0-1000		
K		0-1000		0-1000	0-900
Li		0-1000			
Mg	0-2000	0-2000	0-6000	0-50	0-2700
Mn	0-1000	0-1000			0-900
Mo	0-1000	0-1000		0-500	
Na	0-1000	0-1000	0-6000	0-1000	0-100
Ni	0-1000	0-1000			0-900
P	0-2000	0-2000	0-6000	0-2500	
Pb	0-1000	0-1000		0-50	0-900
Sb		0-1000			
Si	0-1000	0-1000		0-500	0-300
Sn	0-1000	0-1000			
Sr			0-1000		
Tj	0-1000	0-1000			
V	0-1000	0-1000			0-900
W			0-1000		
Zn	0-2000	0-2000	0-6000	0-50	0-900
Zr			0-1000		
TOTAL	21	24	+8	15	15

Technical Specifications

Available Test Methods	ASTM D6595, ASTM D6728
Correlation to	ASTM D5185 (ICP-AES)
Spectrometer Type	Rotating Disc Electrode Spectrometer (190 - 810 nm) Thermally stabilized Paschen-Runge mounting with CMOS detectors
Applications	Determination of additives, wear metals and contaminants in lubricating oils, hydraulic fluids, gas turbine & diesel engine fuel, heavy fuel oil (HFO), crude oil, glycol coolants, process water, mineral water, and grease
Analytical Range	Simultaneous measurement of up to 34 elements in 30 seconds with sup-ppm (LOD) for most elements incl. automotive background correction
Calibration	Factory calibrated for 24 elements Optional calibration for up to 34 elements
Sample Volume	2 mL; no solvents, reagents or gases are needed, no cleaning of cell window
Operating Conditions	0 °C to 40 °C (32 °F to 104 °F) Up to 90% humidity, non-condensing
Fully Integrated Stand-Alone Design	- Built-in electrode sharpener and ventilation - Industry proven multilingual 10" color touchscreen - Built-in PC with Ethernet, USB, and RS232 interfaces - Optional input by external keyboard, mouse, and barcode reader.
Software	Windows® software for convenient data transfer, viewing spectra and result analysis
Result Database	Over 100,000 detailed test reports and spectra storable in internal memory
Dimensions	36 cm (W) x 66 cm (L) x 69 cm (H) (14.2 x 25 x 27 in)
Weight	55 kg (120 lbs)
Power Requirements	90 – 270 V AC 16 A 1 KW; 50/60 Hz, 500 Watt
Recommended Consumables for 1000 tests	EOL01 – A001 graphite discs (50 pcs) EOL01 – A002 graphite electrodes (100 pcs) EOL01 – A003 2 ml sample cups (1000 pcs)