Da Vinci Fuel-In-Oil (DAFIO™)



The DAFIO™ technique is derived from a UT-Battelle, LLC laser induced fluorescence (LIF) technology that was developed at Oak Ridge National Laboratory (ORNL) under a Collaborative Research and Development Agreement (CRADA) with Cummins Inc. The DAFIO™ technique is protected by US Patents numbers 7,839,492 B2 and 6,165,384. Da Vinci Emissions Services, Ltd. owns an exclusive license to this technology.

Da Vinci Emissions Services, Ltd is a privately held engineering firm located in San Antonio, Texas. We sell specialized equipment supporting combustion engine research and development testing.





DAFIO Features:

- Real-time data
- Instantaneous feedback to engineers
- Use of any fuel
- Use of any lubricant
- On-line (engine) and on-board (vehicle and boat)
- Portable system on roll-around cart
- Fast setup and easy to use
- Fully automated and unmonitored operation
- LabView software
- 12 months warranty on labor and parts
- 12 months free hotline support

Specifications:

- ♦ Sensitivity: <0.01% fuel dilution</p>
- ♦ Accuracy: <0.10% fuel dilution
- ♦ Frequency: <5 Hz</p>
- ♦ Laser: λ=532 nm (green), 100mW, TEC element
- Spectroscope: High-sensitivity CCD
- Optical access: Through remote oil filter
- Tracer: Commercially available fluorescent dye added to fuel, approved by all major OEM's
- ◆ Enclosures: Inline, 304 Stainless Steel, NEMA 4
- ♦ Power: 110VAC, <100W
- ♦ Safety class: 3B
- ◆ Size (HXWXD): 36"X24"X30" = 92cmX61cmX76cm
- ♦ Weight: <100lb = <45kg



Dr. Kent Froelund, CEO & President

Da Vinci Emissions Services, Ltd

12665 Silicon Drive, San Antonio, Texas 78249, USA

Cell: +1.210.858.6746

Email: kent@davinci-limited.com
Web: www.davinci-limited.com