Lubrizol: Corporate Profile

- $1.9 Billion in Sales
- Over 5200 Employees Worldwide
- #1 maker of additives for lubricants and fuels
- An International Fluid Technologies Company
Our Vision:

For a better world

Fluid

Technologies
Toward a better world ...

Last longer

Work better

Benefit the environment
PuriNOx™ Technology
Low-emission diesel fuel system
PuriNOx™ Technology

PuriNOx™ Additive Package

Water

Diesel Fuel

Seasonal or Other Components

PuriNOx™ Blending Unit

PuriNOx™-powered fuel
PuriNOx™ - Powered Fuel

- Tested and Confirmed Energy Savings of 1-3%
- Used Immediately with Minor Maintenance (Fuel Filter Change) by Dispensing Fuel Directly into Vehicle Tanks
- Uses Existing Storage, Distribution and Fueling Facilities with Minor Modifications
- Handles Like Diesel Fuel But with defined stability parameters
- Reduces NOx by up to 30% and Particulates by up to 65%

Uniqueness of PuriNOx™ - powered fuel
Reduces NOx & PM

Reduces NOx by up to 30% and Particulates by up to 65%
Tested and Confirmed Energy Savings of 1-3%
Used Immediately with Minor Maintenance (Fuel Filter Change) by Dispensing Fuel Directly into Vehicle Tanks
Uses Existing Storage, Distribution and Fueling Facilities with Minor Modifications
Handles Like Diesel Fuel But with defined stability parameters
### Emission Reduction Summary

<table>
<thead>
<tr>
<th></th>
<th>NOx</th>
<th>Particulates</th>
</tr>
</thead>
<tbody>
<tr>
<td>LZ Claim</td>
<td>Up to 30%</td>
<td>Up to 65%</td>
</tr>
<tr>
<td>Average</td>
<td>12.6%</td>
<td>46.4%</td>
</tr>
<tr>
<td>Average</td>
<td>26.6%</td>
<td>45.3%</td>
</tr>
<tr>
<td>In-Use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARB</td>
<td>14%</td>
<td>63%</td>
</tr>
<tr>
<td>AIR Inc.</td>
<td>19%</td>
<td>54%</td>
</tr>
<tr>
<td>US EPA</td>
<td>9 – 20%</td>
<td>16 – 58%</td>
</tr>
</tbody>
</table>

Based on 20% water
PuriNOx Technology - California

Sacramento
PuriNOx Fuel Marketed by Ramos Oil Company
5 Million Gallons Annual Capacity

Los Angeles
Proformix® Fuel Manufactured by Chevron
Marketed and Distributed by General Petroleum
5 Million Gallons Annual Capacity

25 Million Gallons Annual Capacity
End-Use Applications

Emission Sensitive

Intensive Use Applications

Centrally Fueled Equipment

On-Highway
- Pick Up & Delivery Fleets
- Urban/School Buses
- Waste Management Fleets

Others: Agriculture, Locomotive, Marine

Off-Highway
- Mining
- Construction
- Stationary Power
- Port

Emission Sensitive
Intermodal Equipment Retrofits
California Applications

- Rail
- Marine
- School Buses
- Off Road
- Municipal Transit
- Standby Equipment
- Solid Waste
## PuriNOx™ Fuel Regulatory Credentials

<table>
<thead>
<tr>
<th>Credential</th>
<th>Date Obtained</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. EPA Fuel Registration – PuriNOx™ All Weather Blend Fuel</strong></td>
<td>July 15, 2003</td>
</tr>
<tr>
<td>Assessed health effects of PuriNOx™ all weather blend fuel.</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. EPA Emissions Verification</strong></td>
<td>December 30, 2002</td>
</tr>
<tr>
<td>Established on- and off-road emission verification values for PuriNOx™ fuel including NOx, PM, HC and CO.</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. EPA Fuel Registration – PuriNOx™ Summer Blend Fuel</strong></td>
<td>October 2, 2002</td>
</tr>
<tr>
<td>Assessed health effects of PuriNOx™ summer blend fuel.</td>
<td></td>
</tr>
<tr>
<td><strong>California Air Resources Board (ARB) Verification</strong></td>
<td>January 31, 2001</td>
</tr>
<tr>
<td>Verified that PuriNOx™ fuel reduces NOx by 14% and PM by 63%.</td>
<td></td>
</tr>
</tbody>
</table>

*PuriNOx™ Fuel is currently the only diesel emulsion to be formally verified and registered by U.S. EPA*
# California Regulatory Credentials

<table>
<thead>
<tr>
<th>ARB Verification</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Stationary Source Division</td>
<td>Mobile Source Division</td>
</tr>
<tr>
<td>(Voluntary Markets)</td>
<td>(Regulated Markets)</td>
</tr>
</tbody>
</table>

- 14% NOx and 63% PM
- No net increase in toxic emissions
- Hydrocarbon emissions are at least 25% lower than any applicable diesel vehicle standard

### Lubrizol Technology

- February 2003 -- ARB confirmed emission reductions of 20% NOx and >50% PM for specific off road applications.
PuriNOx Synergies with Aftertreatment
An Integrated Performance System

Additive Package
Water
Diesel Fuel
Seasonal or Other Components

Fuel Blending Unit
PuriNOx™ Fuel
AZ Purifier, AZ Purimuffler™ or Purifilter™
The PuriNOx Technology has clearly demonstrated that Emulsified Diesel is a valid, long term emission control strategy.

As such, it is pioneering what we believe will become an industry.

Question: How best to make it a permanent and integral element of California’s Clean Air Initiatives?
Balancing the cost effectiveness of verification processes and the obligation to ensure technologies do what they say they do is not easy.

Two or more separate verification processes, whatever their cost and rigor, cannot be termed cost effective, absent reciprocity.
The challenge is to transform environmental value into economic value.

Mobile Emission Credit Trading is a viable path to assure surplus emission reductions are achieved and centrally fueled end user fleets derive value from using cleaner technologies.
Preserving the Long-Term Role of “Alternative” Diesel Fuels

Ideas For Consideration

• Reciprocating Cost-Effective State And Federal Verification Processes.

• Enhance And Promote Existing Mobile Source Emission Credit Trading Mechanisms.