



## Texas Low Emission Diesel Fuel (TxLED) Alternative Diesel Fuel Formulation Approval Notification

The alternative diesel fuel formulation listed herein has been demonstrated to the satisfaction of the executive director of the Texas Commission on Environmental Quality in accordance with the regulations specified under Title 30, Texas Administrative Code, Chapter 114, Subchapter H, Division 2, §114.315(d) to achieve comparable or better reductions in emissions of NOx, THC, NMHC, and PM to that of Texas Low Emission Diesel Fuel (TxLED). Therefore, the alternative diesel fuel formulation listed herein complies with the requirements specified under Title 30, Texas Administrative Code, Chapter 114, Subchapter H, Division 2, §114.312(f) and may be used to satisfy the requirements of §114.312(a) of this title.

Approval Date:	May 3, 2005
TCEQ Assigned Identification Number:	TXLED-A-00001
Approved alternative diesel fuel formulation:	Lubrizol PuriNOx™ Summer Blend Fuel
EPA Registration Number and Name:	6218-124-11, PuriNOx Summer Blend Fuel
Additive Identity:	PuriNOx™ 1121A - This additive is a proprietary formulation of The Lubrizol Corporation and is designed specifically and exclusively for the blending of PuriNOx™ diesel emulsion fuel in North America.
Additive Minimum Concentration / Treatment Rate:	The formulation for PuriNOx™ fuel in North America is: <ul style="list-style-type: none"> <li>• PuriNOx™ 1121A - 3.0 w%</li> <li>• Water - 20.0 w%</li> <li>• Base diesel fuel - 77.0 w%</li> </ul>
Base Diesel Fuel Specifications:	All base diesel fuels used for blending PuriNOx™ fuel must comply as follows: <ul style="list-style-type: none"> <li>• Grade No. 2-D diesel fuel specification (ASTM D975-04c (Standard Specification for Diesel Fuel Oils) or current active version of ASTM D975)</li> <li>• A minimum Cetane Index of 45 as defined by ASTM D976-80</li> </ul>
Test Method(s):	No methodology to test for the additive is involved; however, PuriNOx™ fuel is blended by a proprietary process that is automated and governed by a programmable logic controller (PLC). Additionally, all blender/distributors in North America are obligated via contractual agreement to blend PuriNOx™ fuel exclusively with the PuriNOx™ 1121A additive using Lubrizol's process and operating procedures.