

## ORYXE™ TSE TWO-STROKE FUEL ADDITIVE

### A Green Solution for a Black and White Issue.

Smoke from the widespread use of two-stroke bikes throughout Asia has caused residents and air quality officials concern. ORYXE Energy has developed a new two-stroke additive, called ORYXE™ TSE, to address this concern.



ORYXE  
ENERGY  
The New Nature of Fuel.®

[www.oryxe.com](http://www.oryxe.com)

# Scientifically Proven.

When ORYXE™ TSE is added to two-stroke oil, it reduces black and white smoke, called opacity, while also improving lubricity.

The ORYXE TSE technology is based on naturally occurring chemical processes, and contains proprietary, renewable components that are biodegradable and non-toxic.

Laboratory and field tests conducted in Malaysia have demonstrated a 40 to 90% composite reduction of non-combustibles under a no load condition and a 20 to 70% composite reduction under a load condition.

Field tests were conducted on four different types of bikes: a 1995 Suzuki TXR-135cc (Model 1), a 1997 Yamaha RXZ-125cc (Model 2), a 1993 Yamaha RXZ-125cc (Model 3) and a 2004 Yamaha 125ZR-125cc with catalyzer (Model 4). Figures A and B show the average opacity values of all the untreated and treated runs performed on the individual models, as well as the resulting opacity reductions at 3000 and 6000 rpm's.

**Figure A.**  
Overall Average Opacity Values and Opacity Reductions of Bikes at 3000 rpm Condition

	UNTREATED AVERAGE (%)	TREATED AVERAGE (%)	REDUCTION @ 3000 RPM
<b>Model 1</b>	<b>9.1</b>	<b>3.1</b>	<b>65.4%</b>
<b>Model 2</b>	<b>3.8</b>	<b>2.0</b>	<b>48.2%</b>
<b>Model 3</b>	<b>13.2</b>	<b>2.2</b>	<b>83.5%</b>
<b>Model 4</b>	<b>5.3</b>	<b>0.3</b>	<b>94.4%</b>



**Figure B.**  
Overall Average Opacity Values and Opacity Reductions of Bikes at 6000 rpm Condition

	UNTREATED AVERAGE (%)	TREATED AVERAGE (%)	REDUCTION @ 6000 RPM
<b>Model 1</b>	<b>16.6</b>	<b>9.9</b>	<b>40.6%</b>
<b>Model 2</b>	<b>9.5</b>	<b>4.7</b>	<b>50.5%</b>
<b>Model 3</b>	<b>43.7</b>	<b>8.6</b>	<b>80.3%</b>
<b>Model 4</b>	<b>3.0</b>	<b>1.1</b>	<b>65.3%</b>