



# QE Energy International Company Limited

*Saving energy for your future*

Clean Technology  
Fuel Saving Additive  
For Engines and Furnaces

**mXt9<sup>®</sup>**  
Technology





MXT9® is a nano-bio fuel additive derived from a ground-breaking science which significantly improves combustion efficiency for liquid fuels including gasoline, gasohol, diesel, biodiesel and heavy fuel oil.

MXT9® has been used in several engine combustion and has found significant fuel savings.

## Technology Principle

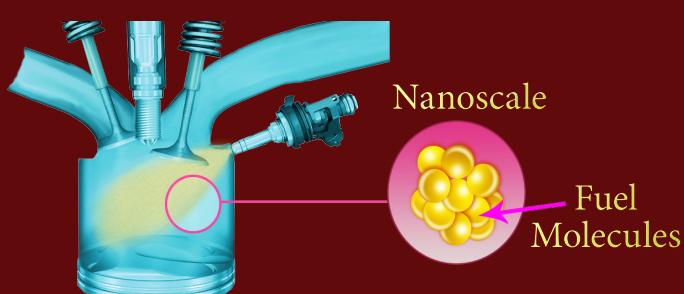
When fuel molecules flow inside the pipe, they naturally move, interact, or hit each other between the atoms of a molecule with the other atoms of the other molecule causing the attractive and repulsive forces to occur. These forces are known as intermolecular forces that cause the molecules to adhere together and form molecular clusters. Once these clusters enter into the engine or combustion, their cluster sizes become big and difficult for complete combustion.

MXT9® introduces the molecular organic neutralization inducers to balance these forces of molecular interactions. It separates big fuel clusters into small single molecules that will further react immediately with oxygen in combustion and results in significant fuel savings and reduces harmful

A tiny amount of MXT9® can be mixed with fuels such as gasoline, gasohol, diesel, biodiesel and heavy

## MXT9® mixing ratio

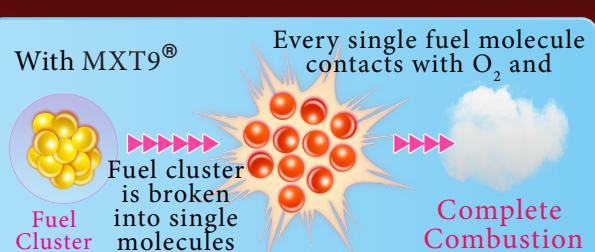
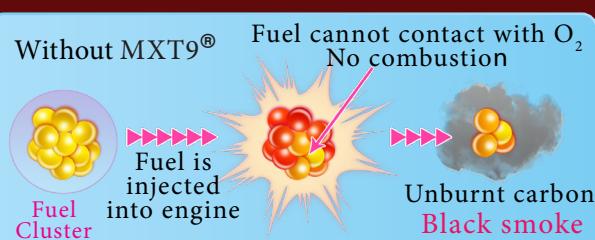
Fuel Types	Ratio for 1 liter of MXT9®
Gasoline, Gasohol	5,000 L
Diesel, Biodiesel	10,000 L
Heavy Fuel Oil	17,000 L



November 30<sup>th</sup>, 2015, The Institute of Renewable Energy Promotion (IREP), Ministry of Energy and Mines of Lao Government has officially collaborated with MXT9® as a part of its national energy efficiency and conservation policy to reduce 10% carbon emission.



## MXT9® Trade Secret Registration, Thailand



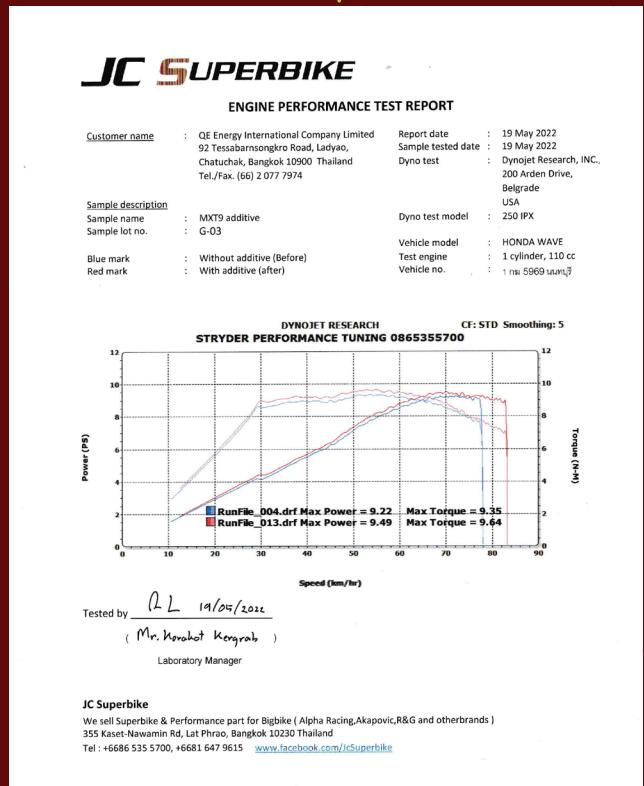
# Gasoline Engines

MXT9® improves combustion efficiency in gasoline engines significantly. The DYNO test measured engine speed (rpm) vs. power (hp) and torque (ft-lbs). Gasoline saving is in range of 10% - 20%.

## Standard DYNO test, Thailand



## Standard Motorcycle DYNO Test



# Diesel / Biodiesel Engines

Improvement of engine efficiency was verified by the standard DYNO test on vehicle speed (km/hr) vs. SAE power (PS). MXT9® affects in increased horse power for diesel and biodiesel engines which are benefit especially in high load working conditions.

## Standard Diesel Engine DYNO Test



## MXT9® reduces black smoke

Complete combustion by MXT9® reduces black smoke significantly.



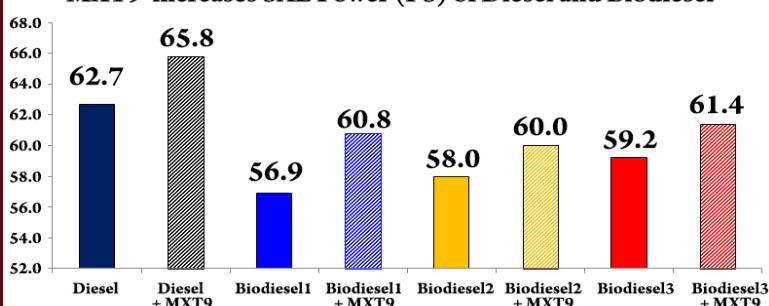
Without MXT9®



With MXT9®



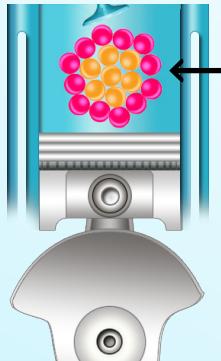
## MXT9 increases SAE Power (PS) of Diesel and Biodiesel



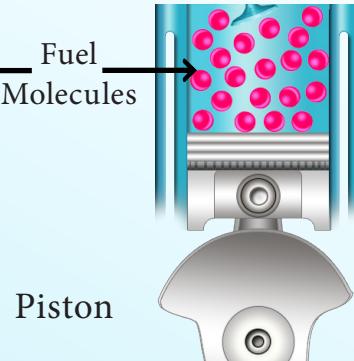
# MXT9® is SAFE for Engines

MXT9® separates fuel clusters into single molecules improving combustion efficiency and left less carbon deposit on pistons.

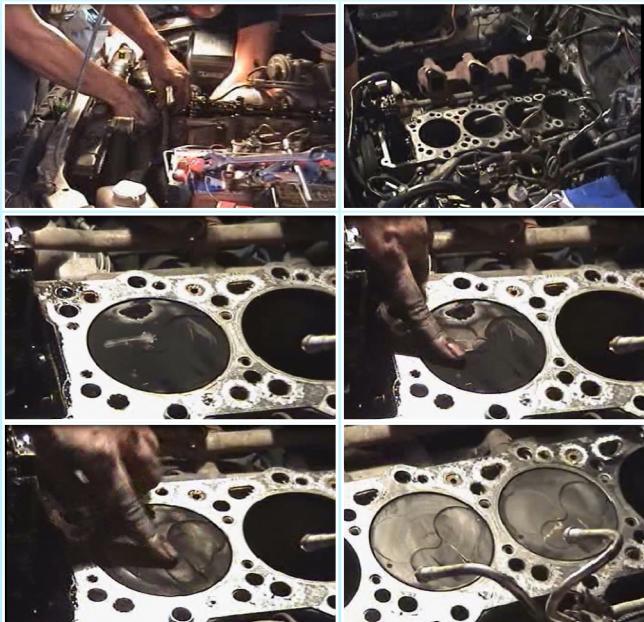
Without MXT9®



With MXT9®



Diesel truck engine after using MXT9® 1 year.



## Engine Applications



Very good for old engines

## Diesel Generators

Diesel generators, Malaysia



Official Test Results on Generator  
BERGEN KVGB-12, 2200hp  
Diesel Saving 6.4%, Vietnam



The trial results of MXT9 at the engine generator No.3 at FSO - BAVI are concluded as follows.

1. MXT9 product improved the combustion of diesel oil and yielded more energy from diesel oil combustion.
2. The energy saving of diesel oil was found to be 6.4%.
3. No adverse effects on the generators and its operation were observed during the trial with MXT9 product.

We confirm the conclusions of this report.

QE (Thailand) Company Limited

1. Mr.Wudh Chayabutra, QE specialist

*Qm* 4 Nov 2013

2. Mr.Nguyen Hung, QE specialist

*Huy* Nguyễn Huy

FSO - BAVI, Vietsovpetro J.V.

1. Mr. Matskalov V.G., Chief Engineer



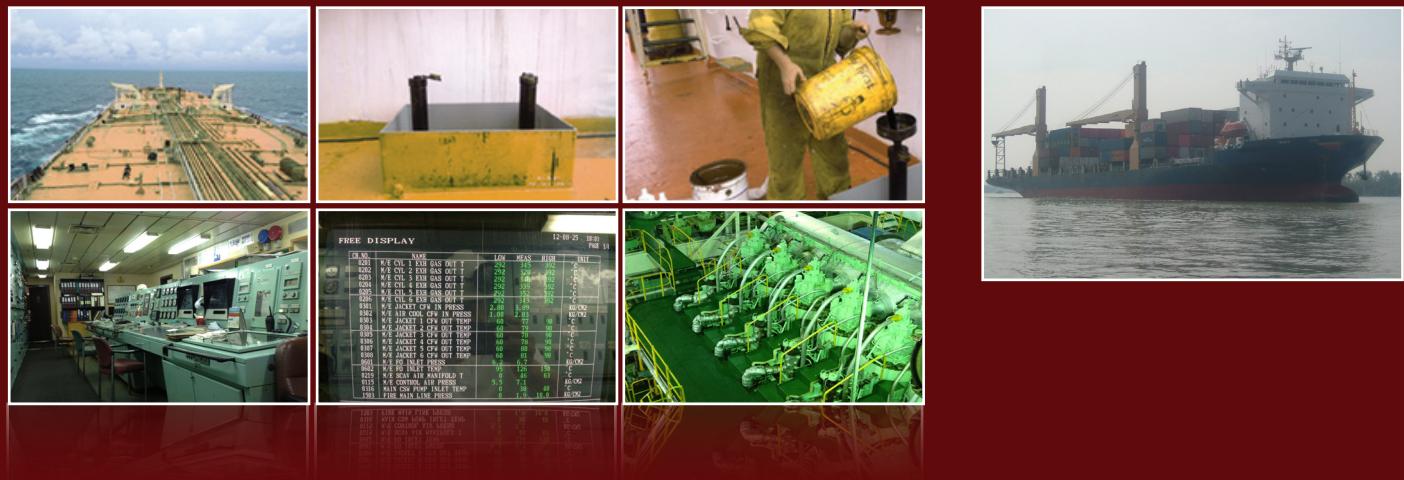
2. Mr. Nguyen Thanh Thao, Third Engineer

*Thao*

# HFO Engines

MXT9® improves HFO combustion efficiency for marine vessels. Combining variables of engine revolution, load indicator, ship speed, engine speed, % slip, status of sea, wind direction and force MXT9® is able to effectively reduce the specific fuel oil consumption (SFOC, gm/Bhp/hr). Test can be done on board during a normal condition trip.

Vessel 16,120 BHP, Singapore



## MXT9® Mixing Methods

Method 1: Directly add MXT9® into fuel



## MXT9® Benefits

- ✓ Fuel savings
- ✓ Increase engine horsepower
- ✓ Reduce GHG pollution
- ✓ Reduce black smoke
- ✓ Reduce carbon deposits on pistons
- ✓ Safe to use with engines
- ✓ Better ignition and quick start
- ✓ Instant use
- ✓ Small dosage ratio

Method 2: Mix MXT9® with fuel and pump together into storage tanks



## Boilers and Furnaces

MXT9® can save fuel for boilers and furnaces in range of 3% - 10%. It helps to reduce black smoke, carbon monoxide and GHG emissions. Flame is clearly seen brighter in a few moment after MXT9® addition.



Before



After



Before



After



<https://mxt9.net>

## COMPANY PROFILE

QE Group of Companies (QE) specialises in innovative engineering, manufacturing and technology. We have invented a technology to treat liquid fuel molecules which upon entering engines and furnaces results in fuel savings and reduce pollution. Our fuel additive applies to gasoline, gasohol, diesel, biodiesel and heavy fuel oil by our clients that ranges from individuals to industrial users.

QE ENERGY INTERNATIONAL CO., LTD.



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## Our Mission:

To provide considerable fuel savings and reduce green house emission worldwide

## Our Vision:

To be recognized as the world's leading player in fuel savings and green house emission reduction technology.