

# CA EMISSION

Are you compliant with new emission laws in California?

**TOTALSOURCE®**

**FEATURED PRODUCTS**

## IMPORTANT TERMS

### Non-Forklifts

This includes sweepers/scrubbers, industrial tractors, and airport ground support equipment.

### Small Sized Fleet

A small sized fleet contains less than 4 forklifts or non-forklifts.

### Medium Sized Fleet

An operator with 4 to 25 pieces of LSI equipment is defined as a medium sized fleet.

### Large Sized Fleet

An operator with more than 26 pieces of LSI equipment is defined as a medium sized fleet.

### Operator

A "person with legal right of possession and use of LSI engine equipment other than a person whose usual and customary business is the rental or leasing of LSI equipment."

### LSI

large spark ignition

### Engine Family Names

This is an alphanumeric code which is the legal identifier of an engine to the California and/or US EPA. For certified engines, engine manufacturers are required to affix a label to the engine listing the Engine Family Name.

Lists of CARB Engine Family Names can be found at:

[http://www.arb.ca.gov/msprog/offroad/cert/cert.php?eng\\_id=LSIE](http://www.arb.ca.gov/msprog/offroad/cert/cert.php?eng_id=LSIE)

## Is there a penalty for non-compliant trucks?

CARB can fine companies \$500 per day, per non-compliant truck.

## What kind of general information should I record?

A baseline inventory of the company's statewide fleet of both forklifts and non-forklifts needs to be taken.

A written statement should be kept saying that the quality of the fuel supplied meets all applicable state and federal laws for use in their engines.

## What types of Engine Control Systems will make my fleet compliant, and where do I purchase them?

SMH supplies TermiNOx™, as well as other engine control systems that are approved for use by CARB. The TermiNOx™ system upgrades any industrial spark ignited LPG or CNG fueled engine, and at the same time, improves fuel economy up to 20% with electronic controls.



## What kind of information do I need to provide in order to receive an accurate quote?

Retrofitting an engine control system is on a case by case basis; each truck has a specific fit. The minimum amount of information that SMH requires is:

- Equipment Type
- Vehicle Make
- Vehicle Model
- Serial Number
- Original Muffler Part Number
- Engine Model
- Fuel System

## Where can I find additional information on CARB regulations?

This flyer is intended as an informational summary only, and the reader should seek additional information from the California Air Resources Board, as well as other related agencies. All information contained in this document was adapted from the following sources:

[http://www.enginecontrolsystems.com/files/carb\\_lis\\_requirements.pdf](http://www.enginecontrolsystems.com/files/carb_lis_requirements.pdf)

<http://www.arb.ca.gov/msprog/offroad/orsparkorspark.htm>

## When do the CARB LSI Engine Fleet Requirements take effect?

The following average emission standards must be met by the dates specified:

Fleet Average Emission Standards in g/kW-hr  
(g/bhp-hr) HC + NOx

FLEET TYPE	4/1/09	1/1/2011	1/1/2013
Large Forklift Fleet	3.2(2.4)	2.3(1.7)	1.5(1.1)
Medium Forklift Fleet	3.5(2.6)	2.7(2.0)	1.9(1.4)
Non-Forklift Fleet	4.0(3.0)	3.6(2.7)	3.4(2.5)

**NOTE:** Electric forklifts are assumed to have zero emissions.

## Who is directly affected by the CARB LSI Engine Fleet Requirements?

Any operator in California with four or more forklifts must follow the new requirements.

Any operator in California with four or more non-forklifts which include gasoline or propane fueled spark-ignition engines greater than 1L in displacement and rated at greater than 25 horsepower, must adhere to the new standards.

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