

Environmentally Trustworthy

FACT: Yale Veracitor® engines are among the cleanest forklift engines available.

FACT: Yale Veracitor® engines are certified at levels better than the 2007 EPA/California Air Resources Board (CARB) exhaust standards.

FACT: Yale Veracitor® engines are among the cleanest on the market when comparing both HC+NOx and CO.

Lately there have been published statements attributed to other forklift brands that they offer the world's cleanest I.C. Lift Trucks.

Let's review the facts...



FACT: The Yale® Veracitor™ GM2.4L and Mazda 2.0L and 2.2L engines perform better than Toyota, Nissan and CAT in combined HC+NOx (hydrocarbon and oxides of nitrogen) and CO (carbon monoxide) emissions.

FACT: Veracitor's GM 2.4L engine is so clean; it already meets the 2010 (CARB) emissions standard!

FACT: The Veracitor GM 2.4L engine performs with a 0.3 HC+NOx level and a 2.2 CO level. The lower CO number means that this Yale® Veracitor engine emits less carbon monoxide.

FACT: While the Toyota 2.2L engine has a 0.3 HC+NOx level, it also has a 12.4 CO (carbon monoxide) level.

FACT: Veracitor Mazda engines surpass the 2007 Emission Standard.

FACT: Both 2.0L & 2.2L Mazda engines are certified at levels better than the 2007 Emission Standard in combined HC+NOx and CO.

FACT: When looking at combined HC+NOx and CO, Yale's Mazda engines are second only to Yale's GM engine in emission cleanliness!

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Listed below is the official information submitted to EPA/CARB for engines used in Yale, Toyota, Nissan, and Caterpillar products. This is public information and can be found by going to the following CARB website: http://www.arb.ca.gov/msprog/offroad/cert/cert_search.php

Both EPA and the CARB 2007 regulations require that the engine meets the emissions levels with proper maintenance.

- Exhaust emissions are defined and measured by the amount of HC+NOx (hydrocarbon and oxides of nitrogen) and CO (carbon monoxide) an exhaust system emits.
- The table below shows the actual test results as reported to the EPA and CARB (in green on the left) and the 2007 standards (in blue on the right). A lower number means cleaner exhaust emissions.

2007 EPA/CARB Engine Emission Levels						
	Certification Levels (Actual test results submitted for certification)		EPA / CARB Exhaust Standards (What the engine is certified against)		Certification Information	
	(g/kw-hr)		(g/kw-hr)			
3,000–7,000 lb. Trucks	HC+NOx	CO	HC+NOx	CO	Manufacturer of Record	CARB Executive Order
Yale						
GM 2.4L LPG	0.3	2.2	0.8	20.6	Teleflex GFI	U-L-032-0006
Mazda 2.0L / 2.2L LPG	0.5	3.4	1.3	11.1	IMPCO	U-L-006-0028
Toyota						
Toyota 2.2L LPG	0.3	12.4	0.8	20.6	Toyota	U-L-004-0021
Nissan						
Nissan 2.5L LPG	0.5	6.5	1.3	20.6	Nissan	U-L-001-0036
Nissan 2.1L LPG	0.6	6.3	1.3	20.6	Nissan	U-L-001-0035
Caterpillar						
Nissan 2.5L LPG	0.5	6.5	1.3	20.6	Nissan	U-L-001-0036
Nissan 2.1L LPG	0.6	6.3	1.3	20.6	Nissan	U-L-001-0035
8,000–15,500 lb. Trucks	HC+NOx	CO	HC+NOx	CO	Manufacturer of Record	CARB Executive Order
Yale						
GM 4.3L LPG	0.9	2.8	2.7	4.4	Teleflex GFI	U-L-032-0005
Toyota						
GM 4.3L LPG	2.1	1.3	2.7	4.4	IMPCO	U-L-006-0027
Nissan						
Nissan 2.5L LPG	0.5	6.5	1.3	20.6	Nissan	U-L-001-0036
Nissan 4.5L LPG	0.8	9.5	1.3	20.6	Nissan	U-L-001-0037
Caterpillar						
GM 4.3L LPG	2.1	1.3	2.7	4.4	IMPCO	U-L-006-0027
Nissan 4.5L LPG	0.8	9.5	1.3	20.6	Nissan	U-L-001-0037

(HC + NOx) = Hydrocarbons plus Oxides of Nitrogen (CO) = Carbon monoxide