



PRODUCT INFORMATION BULLETIN



PIB # 0510.05

May 10, 2005

Series Impact: C024, D010, E001, E010, F001, F187, F004, G006, H177, L005

TO: ALL HYSTER DEALER PRINCIPALS, SALES MANAGERS, & SALES REPRESENTATIVES

FROM: DALE GRINDER – INSIDE SALES MANAGER

SUBJ: EPA Engine Emission Certification Levels

As defined on Hyster Product Information Bulletin D/C#19, dated September 22, 2003, the Environmental Protection Agency (EPA) legislation for emission controls went into effect in January 2004 for all 50 states. This legislation affected all Large Spark Ignited (LSI) engines, 25 horsepower (HP) and larger.

The California Air Resources Board (CARB Tier II, 2004, emissions regulation is in line with the EPA 2004 emissions regulation, in terms of required emissions levels and testing. Now that we are well into the 2004 EPA & CARB Tier II regulation we wanted to provide your dealership with the actual emission levels as reported to the California Air Resource Board (CARB) for LSI engines used in Hyster products as well as competitor products equipped with engines that fall into the LSI category.

Over the last few months, there has been a lot of discussion in the field relative to some manufacturer's claiming that their fork lifts provide customers with the lowest emission levels in the industry. As a result, the following chart provides the hydrocarbon plus oxides of nitrogen (HC+NO_x) and carbon monoxide (CO) exhaust certification emission standards for the engines used in Hyster product. The emission levels shown in the table below are the levels submitted to both CARB and EPA to show emissions compliance per the requirements of their specific 2004 emissions regulations. Both the EPA and the CARB Tier II 2004 regulations require that the engine meets the following emissions levels with proper maintenance **HC+NO_x 3.0 (g/bhp-hr) and CO 37.0 (g/bhp-hr)**.

Below are the actual HC+NO_x and CO levels for gasoline and LPG engines built in 2005 and the model series that they are found in Hyster products.

Model Year	2005	2005	2005	2005	2005	2005	2005	2005
Engine Displacement (liters)	GM 4.3L	GM 3.0L	GM 2.4L	GM 2.4L	Mazda 2.2L	Mazda 2.2L	Mazda 2.0L	Mazda 2.0L
Fuel Type	Gasoline , LPG	Gasoline , LPG	Gasoline	LPG	LPG	Gasoline	LPG	Gasoline
HC+NO _x	2.3	1.6	0.3	0.1	0.3	0.4	0.3	0.4
CO	5.8	27.6	6.7	1.1	1.3	12.9	1.3	12.9
Hyster Series Used In	F004 C024 L005 G006	H177	F187 L177	F187 L177	F187 L177	F187 L177	D010 F187 L177 E001 E010 F001	D010 F187 L177 E010 F001

YOU NEED TO CHECK THIS OUT!

You may review all LSI executive orders (certification emission levels) issued by the state of California at the following web site. This site will list current and past executive orders for anyone who was granted permission by the state to sell and distribute LSI engines. It should be noted for 2005 that almost all of the emission numbers listed would be the same for the EPA certifications for LSI engines.

Engines used by our competitors may be listed by the Fork Lift Manufacturer or by a third party (fuel system supplier), for example, IMPCO, NGVI, GFI. It should be noted that Nissan is the Manufacturer of Record (MOR) for: Nissan, MCFA and Komatsu.

http://www.arb.ca.gov/msprog/offroad/cert/search_result.php

Please ensure you distribute this bulletin to your Aftermarket and Service departments, this information may be useful in their daily discussions with current and potential Hyster customers.

Hopefully this information has created awareness and will put an end to the misleading, distortion of the truth. As you will see, Hyster Company products provide some of the LOWEST emission levels when compared to other manufacturers for 2005 certified engines. When in doubt, the customer should request from the competition documentation showing the emission levels used to certify their product. An example of documentation would be the executive order issued by the EPA or CARB which is public information. Another method is to look for the Engine Emissions Certification Label that is on the subject engine. The engine family code should be on the label. This engine family code is included with the information on the website provided above.

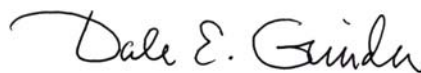
For Reference (Emissions Regulations):

EPA LSI Emissions Regulation – 40 CFR Part 89 – Section (Part)) 1048

California LSI Emissions Regulation (2001-2006) - TITLE 13, CALIFORNIA CODE OF REGULATIONS, CHAPTER 9, Article 4.5

As always, we appreciate the support of our distribution network and the sales organization.

Sincere Regards,



Dale E. Grinder
Inside Sales Manager – Hyster Company

CONFIDENTIAL MATERIAL

**For use by Hyster Company Employees and Hyster Authorized Dealers Only
Do not copy or distribute.**

The information contained in this bulletin is for information purposes only; Hyster Company reserves the right to change the design of our products without incurring an obligation to modify previously manufactured products.