



Regulatory Advisory

July 2016



Advisory Number: 310

IMPLEMENTATION OF THE COMMERCIAL HARBOR CRAFT REGULATION

The purpose of this advisory is to assure commercial harbor craft (CHC) owners/operators with in-use diesel-fueled engines certified to either United States Environmental Protection Agency (U.S. EPA) Tier 2 or newer marine engine emission standards or U.S. EPA or California Air Resources Board's (ARB's) Tier 2 or newer certified off-road or nonroad compression-ignition (CI) engine emission standards, including engine model years 2007 and earlier, that such engines are compliant with the in-use engine emission limits and compliance schedules of the ARB's Commercial Harbor Craft regulation (CHC regulation), California Code of Regulations (CCR), title 17 § 93118.5, subsection e)(6), *In-Use Engines and Vessels - Schedules for Meeting Tier 2 or Tier 3 Standards*. These in-use engine requirements are only applicable to pre-Tier 1 and Tier 1-certified engines on ferries, excursion vessels, tugboats, towboats, push boats, crew and supply vessels, and barge and dredge vessels only, per subsection e)(6)(A)1, *Applicability*.

The in-use requirements of the CHC regulation require owners or operators of ferries, excursion vessels, tugboats, towboats, push boats, crew and supply vessels, and barge and dredge vessels that are equipped with pre-Tier 1 or Tier 1 certified marine or off-road engines to meet emission limits equal to or cleaner than federal Tier 2 or Tier 3 new marine engine certification standards or ARB or U.S. EPA Tier 2 or Tier 3 off-road CI engine standards in effect for the year that in-use engine compliance was required. Compliance options are provided in CHC regulation subsection e)(6)(C) *Compliance Methods*. The CHC regulation subsection e)(6)(D), *Compliance Dates*, includes compliance schedules with dates specified by engine model year and annual hours of operation. Compliance dates are listed for model years through 2007.

U.S. EPA Tier 2 Marine and ARB and U.S. EPA Off-Road Engine Emissions Standards

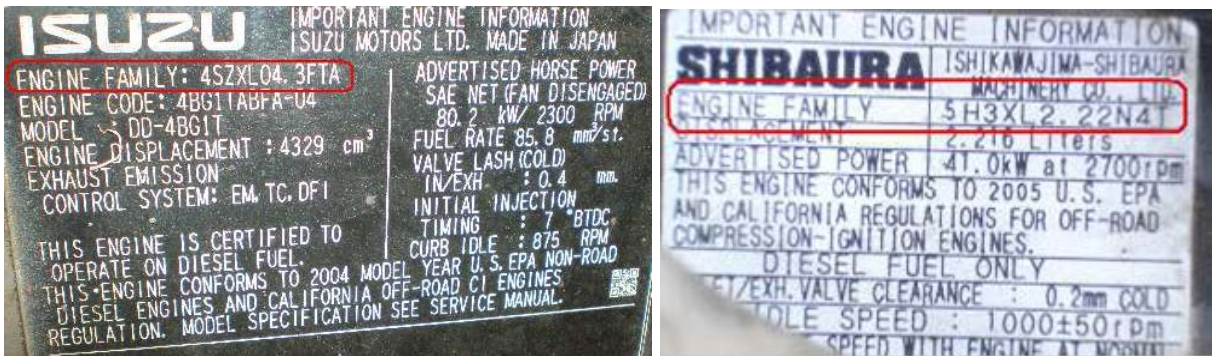
U.S. EPA Tier 2 marine engine emission standards were phased in for commercial marine engines beginning 2004 and extending through 2007, depending on engine size and power rating. ARB and U.S. EPA Tier 2 off-road and nonroad emission standards for off-road CI engines, which are sometimes used in marine auxiliary applications, were phased in between 2000 and 2006, depending on power rating. Consequently, some pre-2008 model year engines are certified to Tier 2 standards and are therefore not subject to the compliance requirements and dates specified in subsection e)(6) of the CHC regulation.

Engine Family Name

CHC owners/operators can determine whether their pre-2008 model year engine is certified to U.S. EPA Tier 2 marine engine emission standards or ARB or U.S. EPA Tier 2 off-road or nonroad CI emission standards based on information provided on the emissions control label, or engine label, specifically the engine family name (EFN). Engines certified to a U.S. EPA or ARB emission standard will have an engine label and an EFN while non-certified engines will not. An EFN is unique to an engine of a specific manufacturer, model year, cylinder displacement, and power rating. Off-road and marine diesel engines generally have EFNs with 11 to 12 characters which include both numbers and letters.

If the engine label does not list an EFN or you are unable to decipher it from the label, the manufacturer of your engine may be able to assist you in determining the EFN if you are able to supply information on the model year and engine model, or the engine serial number. Some

manufacturers also have online tools where their customer can enter an engine serial number and determine the EFN. Below are examples of engine labels with the EFN noted with a red outline.



If the engine label is missing or cannot be located, contact the engine manufacturer for the location of the label or for a replacement label. The engine manufacturer may require the engine serial number in order to replace the label. The engine manufacturer can advise you as to where the engine serial number is stamped on the engine block. ARB staff will assume that an engine is a non-certified engine if it is without a label or EFN.

Determining Engine Certification Tier

The tier standard that the engine is certified to can be determined based on the EFN. You may contact either your engine dealer or ARB CHC program staff (see contact information below) to determine the engine certification tier based on the EFN.

Alternately, for marine engines, U.S. EPA maintains certification databases on their website which may be searched for EFN and the certification tier. See the databases at the following website, under the heading, "Marine Large Compression-Ignition Engines Certification Data":

www3.epa.gov/otaq/certdata.htm

For off-road engines, ARB maintains an off-road engine certification database on the ARB website, which may be searched for the California executive order (EO) based on the EFN. The certification tier is included on the EO. This database provides EO's listed by model year, engine manufacturer, and EFN and may be accessed at: www.arb.ca.gov/msprog/offroad/cert/cert.php

For ARB staff assistance in determining the tier standard to which an engine is certified, please contact either Ms. Zhenlei Wang at (916) 322-1049 or via e-mail at zhenlei.wang@arb.ca.gov or Mr. John Lee at (916) 327-5975 or via e-mail at john.lee@arb.ca.gov.

For More Information

For information regarding this advisory or technical questions concerning the regulation, please visit our web site at www.arb.ca.gov/ports/marinevess/harborcraft.htm or contact Ms. Zhenlei Wang at (916) 322-1049 or via e-mail at zhenlei.wang@arb.ca.gov. Alternately, you may call toll free at (888) 442-7238 or email at harborcraft@arb.ca.gov. If you would like information regarding the enforcement of the commercial harbor craft regulation, please contact Mr. Dave Kemena at (916) 229-0391 or via e-mail at david.kemena@arb.ca.gov or Mr. Hector Pelayo at (626) 575-6779 or via e-mail at hector.pelayo@arb.ca.gov.