

Step-By-Step EPA CDX Upload Instructions for Nonroad Engine Manufacturers

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Compliance and Innovative Strategies Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

Overview

The Verify system provides a Web interface to the EPA and California Air Resources Board (CARB). Using this interface, authorized users are able to create, edit, save, load, and validate their data for submittal to EPA, once their CDX accounts have been established. Below is the CDX site link for Nonroad Confirmatory Testing for Small Spark-Ignition (SI) and Compression-Ignition (CI) Engines (<http://www.epa.gov/otaq/cert/eng-cert/confirmatory/index.htm>).

Step 1. Establish a Manufacturer Code and CDX User Account

This document provides step-by-step guidance to lead you through the necessary steps for using the Environmental Protection Agency (EPA) Verify compliance information system to submit your engine test data for the National Vehicle and Fuel Emissions Laboratory (NVFEL) engine testing program. To send documents to EPA you must first do the following:

1. Request an [EPA Manufacturer Code](#).
2. Create [CDX user accounts](#) for everyone that will be submitting data to EPA.

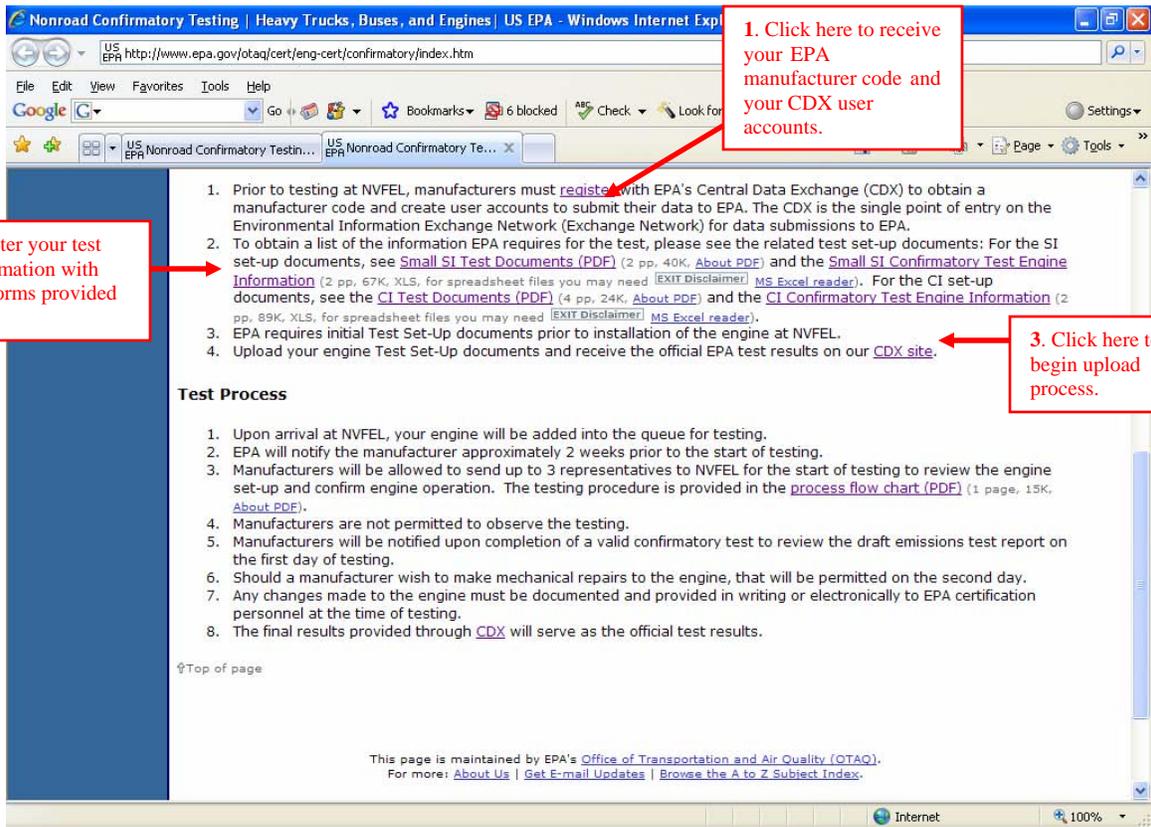
Once you have your EPA manufacturer code and CDX user accounts you must complete the [Small SI Confirmatory Test Engine Information](#) for a Spark-Ignition engine or the [CI Confirmatory Test Engine Information](#) for a Compression-Ignition engine.

The screenshot shows a web browser window displaying the EPA website. The page title is "Nonroad Confirmatory Testing for Small Spark-Ignition (SI) and Compression-Ignition (CI) Engines". The page content includes a navigation menu, a search bar, and a main content area with the following sections:

- U.S. ENVIRONMENTAL PROTECTION AGENCY**
- Heavy Trucks, Buses, and Engines**
- Nonroad Confirmatory Testing for Small Spark-Ignition (SI) and Compression-Ignition (CI) Engines**
- Test Engine**
 1. Identify which engine you will send to EPA.
 2. You are allowed to test the engine at your facility prior to shipment.
 3. For information on shipping schedules, contact [Bruce Sdunek](#) at 734-214-4733 or e-mail sdunek.bruce@epa.gov.
 4. For questions regarding engine test set-up, contact [Maria Peralta](#) at 734-214-4301 or e-mail peralta.maria@epa.gov.
 5. Ship the engine in c/o Maria Peralta to:

EPA's National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Road
Ann Arbor, Michigan 48105
- Test Data**

Additional features on the page include a "Verify Compliance Information System" box and a "Search for Documents" box.



Step 2. Fill out Your Test Setup Data Form

Once you have established an EPA manufacturer code and a CDX user account you should begin to enter your test setup data in the provided Smart Spreadsheet (please see 2 above).

- If you are requesting testing for a Spark Ignition engine please click the link to “Small SI test Documents” and the link to Small SI Confirmatory Test Engine Information”. (See Smart Sheet page in Appendix 1)
- If you are requesting testing for a compression-ignition engine please click the link to “CI Test Documents” and “CI Confirmatory Test Engine Information”. (See Smart Sheet page in Appendix 1)

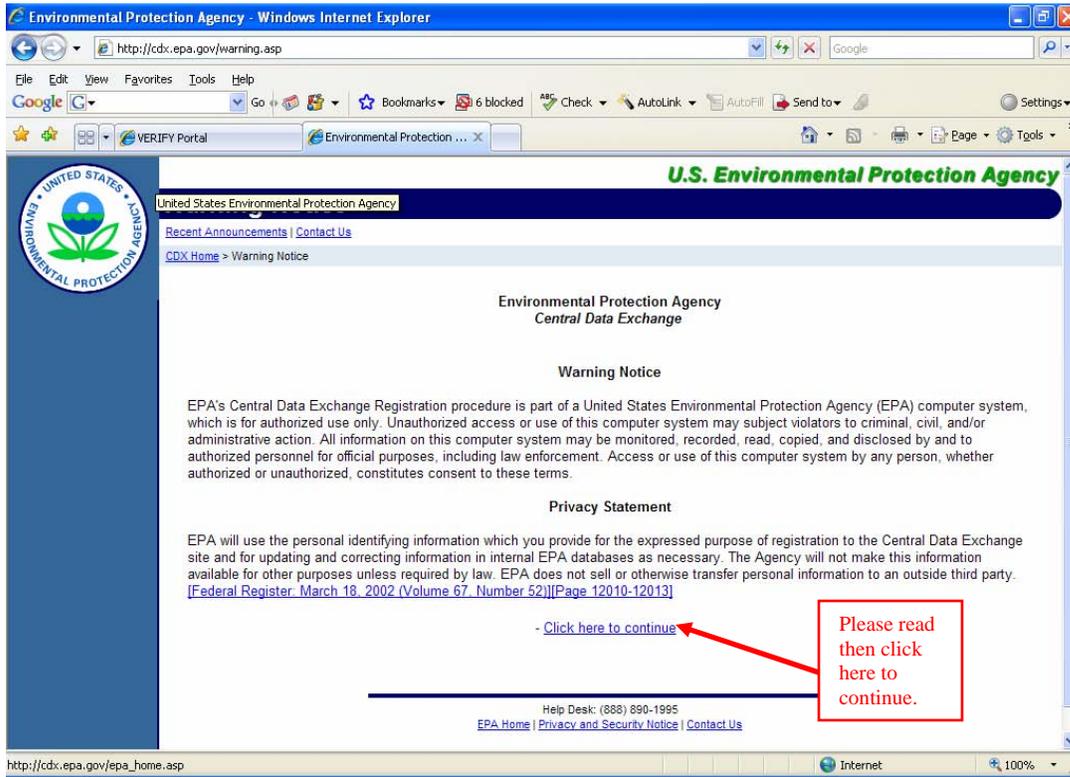
Please fill in the appropriate information in your spreadsheet.

Step 3. Log In to CDX to Upload Your Test Setup Data

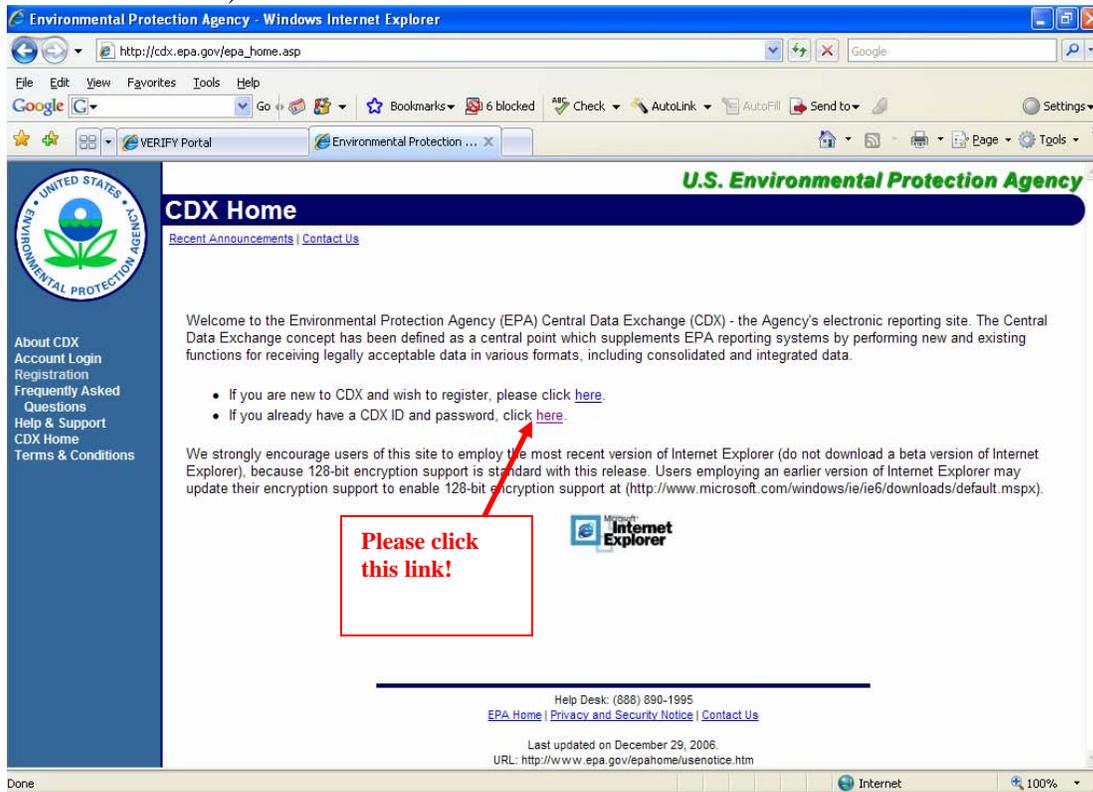
Now that the test information is complete you may send that test setup document to EPA by clicking on the “CDX site” link.

(Note: You must have a manufacturer code to do business with EPA and a CDX user account to upload your information. If you do not have an EPA manufacturer code and/or a CDX user account please proceed back to step 1 above and complete your registration).

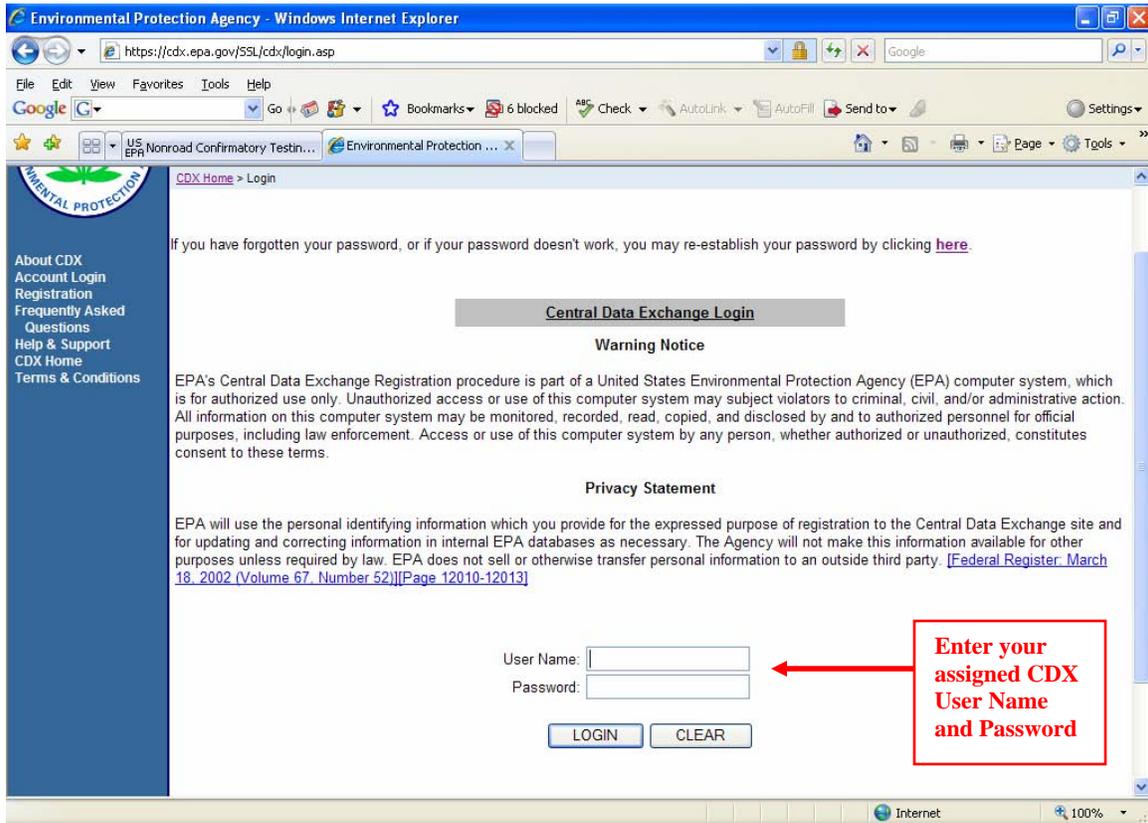
- a) You will be directed to the page below. Please read the “warning” and “privacy” notices and click the “click here to continue” link. (See below).



b) At this point manufacturers should have a CDX user account. You should select the link for those that already have a password and CDX user ID. (See below).



- c) You will be directed to this page to enter your CDX User Name and Password. Please enter your User Name and Password to Log-in to your CDX user account.



- d) You will now be directed to the entry page for My CDX. You can check your inbox for EPA messages and test results. Please select "Verify Upload Supporting Documents" to go to your upload page.





Upload EPA Compliance Documents From Manufacturer Workstation

Logged in as, JOHNHENDON. Manufacturer: Environme... - EPA (Logout)

MyCDX > Upload EPA Compliance Documents

Note:
1. Required fields are marked with * and cannot be left blank.

Help

- About CDX
- MyCDX
- Inbox
- Change Password
- Frequently Asked Questions
- Help & Support
- CDX Home
- Terms & Conditions
- Logout

EPA Manufacturer Code *	EPA
Document Path and File Name *	<input type="text"/> Browse...
Path and File Name of Same Document in Alternate Format	<input type="text"/> Browse...
Industry * (CTRL + Click to select multiple values)	<ul style="list-style-type: none"> Marine Spark Ignited Motorcycles Nonroad Compression Ignition Nonroad Motorcycles and/or ATVs Small Nonroad Spark Ignited
Compliance Document Type *	Nonroad Small SI Confirmatory Testing Set-up Document
Compliance Document Type, if "Other"	<input type="text"/>
General Document Type	Select
General Document Type, if "Other"	<input type="text"/>
Compliance Document Topic	<input type="text"/>
Compliance Document Topic, if "Other"	<input type="text"/>
Confidentiality Status *	<input type="radio"/> CBI <input type="radio"/> FOIA
Document Applicability *	Select
Does this document apply to one/multiple specific model year(s)? *	<input type="radio"/> Yes <input type="radio"/> No
Model Year (CTRL + Click to select multiple values)	<ul style="list-style-type: none"> 2002 2003 2004
Document Date *	<input type="text"/> select
Title *	<input type="text"/>
Abstract *	<input type="text"/>
Keyword(s) * (CTRL + Click to select multiple values)	<ul style="list-style-type: none"> Absorber Air cooled Alternative Fuel Alternative Fuel Converter CARB
Are you the document owner? *	<input type="radio"/> Yes <input type="radio"/> No
Document Owner Name *	<input type="text"/>
Document Owner Phone *	<input type="text"/>
Document Owner E-Mail *	<input type="text"/>
Comments	<input type="text"/>

3. Select your Compliance Document type here.

4. Is the information Confidential Business?

2. Select the Industry category for your engine.

1. Upload your Smart Sheet here. You can upload additional documents in alternate formats as well!

5. Please include your business information.

6. Review and finalize before completing your upload.

Refresh

Review & Finalize

You are in an encrypted secure session.

Help Desk: (888) 890-1995
[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

URL: <http://www.epa.gov/epahome/usernotice.htm>

19:12

Please follow the step-by-step walk through on the page above.

Support

There are three support options available for general and technical questions related to Verify:

1. Telephone - Call our toll-free line at (888) 890-1995 and select option 4 for technical questions regarding data or uploading your documents. Select option 5 for help with your CDX registration(i.e. userid/password) questions..
2. E-mail – Send e-mail to epacdx@csc.com for help with your CDX registration(i.e. userid/password) questions. Send an e-mail to verifyhelp@csc.com technical questions regarding data or uploading your documents.
3. Fax - Assistance with your CDX registration (i.e. userid/password) questions or requests are accepted 24 hours a day at (301) 429-3905. Support personnel will respond to faxed requests Monday - Friday from 8:00 a.m. - 6:00 p.m. (EST).

Appendix 1

Accessing your test data Smart Spreadsheet

You may access your EPA test data Smart Sheet by clicking on the appropriate test engine link below. Manufacturers on this screen will choose either a Small Spark-Ignition engine manufacturer or a Compression-Ignition engine manufacturer for testing.

Test Engine

1. Identify which engine you will send to EPA.
2. You are allowed to test the engine at your facility prior to shipment.
3. For information on shipping schedules, contact [Bruce Sdunek](#) at 734-214-4733 or e-mail sdunek.bruce@epa.gov.
4. For questions regarding engine test set-up, contact [Maria Peralta](#) at 734-214-4301 or e-mail peralta.maria@epa.gov.
5. Ship the engine in c/o Maria Peralta to:

EPA's National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Road
Ann Arbor, Michigan 48105

Test Data

1. Prior to testing at NVFEL, manufacturers must [register](#) with EPA's Central Data Exchange (CDX) to obtain a manufacturer code and create user accounts to submit their data to EPA. The CDX is the single point of entry on the Environmental Information Exchange Network (Exchange Network) for data submissions to EPA.
2. To obtain a list of the information EPA requires for the test, please see the related test set-up documents: For the SI set-up documents, see [Small SI Test Documents \(PDF\)](#) (2 pp, 40K, [About PDF](#)) and the [Small SI Confirmatory Test Engine Information](#) (2 pp, 67K, XLS, for spreadsheet files you may need [EXIT Disclaimer](#) [MS Excel reader](#)). For the CI set-up documents, see the [CI Test Documents \(PDF\)](#) (4 pp, 24K, [About PDF](#)) and the [CI Confirmatory Test Engine Information](#) (2 pp, 89K, XLS, for spreadsheet files you may need [EXIT Disclaimer](#) [MS Excel reader](#)).
3. EPA requires initial Test Set-Up documents prior to installation of the engine at NVFEL.
4. Upload your engine Test Set-Up documents and receive the official EPA test results on our [CDX site](#).

Test Process

1. Upon arrival at NVFEL, your engine will be added into the queue for testing.
2. EPA will notify the manufacturer approximately 2 weeks prior to the start of testing.
3. Manufacturers will be allowed to send up to 3 representatives to NVFEL for the start of testing to review the engine set-up and confirm engine operation. The testing procedure is provided in the [process flow chart \(PDF\)](#) (1 page, 15K).

Search for Documents

Search the Document Index System (DIS) database to find:

- Advisory Circulars
- Applications for Certification
- Certificates of Conformity
- Certificate Summary Information Reports
- Manufacturer Guidance Letters
- Verify System Documentation

Small S-I Smart Sheet

C-I Smart Sheet

For specific examples see forms below.

1. For Spark-Ignition Engines

http://www.epa.gov/otaq/cert/eng-cert/confirmatory/nrsi-confstesteng-info-v080108.xls - Windows Internet Explorer

http://www.epa.gov/otaq/cert/eng-cert/confirmatory/nrsi-confstesteng-info-v080108.xls

File Edit View Insert Format Tools Data Go To Favorites Help

Google

http://www.epa.gov/otaq/cert/eng-cert/confirmatory/...

C6 SOD

EPA United States Environmental Protection Agency Office of Transportation and Air Quality December 2007

CFR 90 Non-Road Spark Ignition Confirmatory Testing - Engine Information

EPA Engine Family: 7XX.xxx
 Manufacturer Code: SOD
 Engine Manufacturer: Sodoku
 Engine Model: Durango
 Engine Serial Number: 95
 Engine Emission Control System: Catalyst

Accumulated Engine Hours (to nearest 10th): 11.0 hours
 Starter Type (electric or pull): pull
 Engine Operation (fixed throttle or governor): fixed
 Governor Type (or none): none
 Rated Speed - Speed at Max Rated Power: 2500 rpm
 Max Torque - Speed & Power @ Max Torq: 2600 rpm
 Intermediate Speed and Torque: 2125 rpm

Idle Speed: 600 rpm
 Engine Over-Speed Alarm Point: 3900 rpm
 Number of Cylinders: 2 cylinders

Engine Phase: 2
 Displacement: 224 cc
 Engine Class: 1 (no hold 100 to 224 cc)
 Useful Life: 250 hrs
 Test Cycle: A

Engine Installation Angle: 60 degrees
 Engine Shaft Orientation: Horizontal Vertical
 Engine Shaft Diameter: 0.5 inches
 Engine Shaft Length: 11 inches
 Shaft Key-way Dimensions: 2 inches

All required numeric values are numeric.
 All mandatory values have been entered.

Engine Cooling Information MFR will need to supply cooling system for testing liquid cooled engines at NVFEL.
 Engine Cooling Type (air/liquid): Air Liquid
 Coolant mixture: 3 ratio (5:1)

For Liquid Cooled Engines:
 Coolant Supply Temperature Set Point: 95 °C
 Min: 95 Max: 95 °C

Message \Input/

2. For Compression-Ignition Engines

http://www.epa.gov/otaq/cert/eng-cert/confirmatory/nrci-confstesteng-info-v071218.xls - Windows Internet Explorer

http://www.epa.gov/otaq/cert/eng-cert/confirmatory/nrci-confstesteng-info-v071218.xls

File Edit View Insert Format Tools Data Go To Favorites Help

Google

http://www.epa.gov/otaq/cert/eng-cert/confirmatory/...

C6 SOD

EPA United States Environmental Protection Agency Office of Transportation and Air Quality December 2007

Heavy Duty Non-Road Diesel Engine Confirmatory Testing - Engine Information

EPA Engine Family: 7XX.xxx
 Manufacturer Code: SOD
 Engine Manufacturer: Sodoku
 Displacement: 224 liters
 Engine Model: Durango
 Engine Serial Number: 95
 Number of Cylinders: 2 cylinders

Rotational Inertia of engine and flywheel: 2 kg.m²
 Governor Type: All Speed
 Accumulated Engine Hours: 55 hours
 Rated Power - Speed and Torque: 1000 rpm
 Intermediate Speed and Torque: 1000 rpm
 Maximum Power - Speed and Torque: 1000 rpm
 Maximum Torque - Speed and Torque: 1500 rpm
 Fuel Consumption at Max Torque: 30 kg/h
 Fuel Consumption at Max Power: 40 kg/h

Minimum Engine Speed: 250 rpm
 Low Idle Speed: 800 rpm
 Governed Speed: 2800 rpm
 Engine over speed e-stop: 3000 rpm
 Engine over speed e-stop: 3 kW

Maximum Air Flow: 970 kg/h
 Exhaust Pipe Diameter(s): 4 in
 Turbo to Intercooler to Engine pipe diam: 4 in

All required numeric values are numeric.
 All mandatory values have been entered.

The following parameters are set at:
 Parameters will be set as close as possible to the setpoints provided but CFR requirements override manufacturer recommended setpoints.
 2500 rpm 1000 Nm
 Note: Min. and Max. values are used to set alarm limits within the data acquisition system.

Inlet Air Restriction Set Point: 6 kPa Min: 3 Max: 9 kPa
 Exhaust Restriction Set Point: 6 kPa Min: 3 Max: 9 kPa

The following parameters are set at rated engine speed and load:

Message \SI/