



United States
US Environmental Protection Agency
Office of Transportation and Air Quality

Manufacturer Production Line Testing Report for Marine Compression Ignition Engines

Last Revision: May 2013 Version Number: 1.0

Manufacturer Data Submission Template -- INSTRUCTIONS

I. About

This template allows manufacturers of Marine Compression-Ignition (CI) engines to submit production line testing (PLT) data in a simple, consistent format. Based on the information entered by the submitter, the template performs the required calculation of the final test result and displays the current status of the test. This template is intended for use by manufacturers subject to either Part 94 or Part 1042. If your engines are subject to Part 1042, you may choose to test your engines using the CumSum methodology in accordance with the procedures outlined in 40 CFR Part 1045 or Part 1051 (see 40 CFR 1042.301(d)(2)). This template has not been designed to accept data from the CumSum methodology; if you choose to test your engines using CumSum you must use the separate Marine CI PLT template that was created for this purpose.

It is intended that a copy of this template be created for each Category for which the reporting of PLT results are required. These data must be submitted on a quarterly basis in accordance with 40 CFR Part 1042.345(a) and 40 CFR Part 94.508(e). It is intended that one copy of a template be maintained per Category, per year, and results should be cumulative. For instance, the file submitted for the second quarter will contain all test results previously submitted for the first quarter with the results from the second quarter added on. The Summary worksheet provides a field to indicate the associated quarter.

The template is organized into several worksheets, including a "Summary" worksheet that includes both preliminary information as entered by the manufacturer and overall compliance information based on the actual PLT data entered in subsequent worksheets (i.e., Engine Family #1, Engine Family #2, etc.). There are enough worksheets for 30 engine families and two additional worksheets ("Invalid Tests" and "Notes") that allow for the submittal of invalid test results and any other relevant notes that the manufacturer would like to submit with the test results. In all of the worksheets, values may be modified only in cells that are white - the green shaded cells contain either labels or calculated values.

Before entering data in this template, international users should ensure that the settings in Excel for number handling are consistent with the template. Number handling settings that currently specify the use of a comma for the decimal separator and a period for the thousands separator must be temporarily modified to avoid errors within the automatic calculations. To modify the number handling settings, the user should go to the "Tools" menu and select "Options." In the window that appears, the "International" tab should be selected. At the top of this tab there will be a section at the top entitled "Number handling"; the check mark in the "Use system separators" box found within this section should be removed. At this point, a period should be inserted for the decimal separator and a comma should be inserted for the thousands separator.

II. Entering General Information

Before entering data for each engine family, some information on the manufacturer and the Category should be entered into the worksheet labeled "Summary." The top portion of this worksheet includes spaces to enter general information about the PLT test. These fields include:

- Manufacturer contact information (manufacturer name, PLT contact, email, and phone);
- Applicable tier;
- Indication of whether a combined emission limit or FEL for HC and NOx will be used;
- Applicable 40 CFR Part;
- Category (select Category 1, Category 2, or Category 3); and
- Current quarter.

There is an additional field for comments. Based on the quarter selected, a set of fields will appear where actual quarter-by-quarter production values will appear based on the data entered for each engine family.

The required engine sample size is calculated as follows (and includes any additional engines tested as a part of the follow-up that is required when an engine fails a test (see 40 CFR 1042.310(c) and 40 CFR 94.507(a)):

- For Category 1 engines subject to Part 94 the required sample size for the category is 1% of the Category 1 projected annual production volume if this is greater than or equal to 100, and 0 if the Category 1 projected annual production is less than 100 (40 CFR 94.505(a)(1)(i)).
- For Category 1 engines subject to Part 1042 the required sample size for the category is 1% of the Category 1 projected annual production volume, with a minimum sample size of 1 (40 CFR 1042.310(a)(1)).
- For Category 2 engines subject to Part 1042 the required sample size for each engine family is 1% of the engine family's projected annual production volume, with a minimum sample size of 1 (40 CFR 1042.310(a)(2) and 40 CFR 94.505(a)(1)(ii)).
- For Category 2 engines subject to Part 1042 the required sample size for the category is 1% of the Category 2 projected annual production volume, with a minimum sample size of 1 (40 CFR 1042.310(a)(2) and 40 CFR 94.505(a)(1)(ii)).

Regardless of the Part or the Category, projected annual production is entered on a per engine family basis on each engine family sheet and a minimum sample size for the engine family is calculated. The projected annual production for the category is calculated by summing up the individual values for the engine families and is displayed on the Summary sheet. The number of completed engine family tests is also calculated from the engine family sheets and is displayed on the Summary sheet. For Part 1042 engines and Part 94, Category 1 engines, the minimum engine sample size for the category is also displayed on the Summary sheet.

Note that if there is a pre-approved reduced sample size, the minimum sample size is set equal to this value (assuming that the pre-approved size entered is less than the sample size calculated in accordance with the corresponding guidelines for Category 1 or 2). A reduced sample size may be pre-approved if the engine family has been certified with carry-over emissions data (40 CFR 1042.301(e) and 40 CFR 94.503(d)).

The sample size status in Column O of the Summary sheet will be displayed for each Engine Family record as either "OPEN" or "PASS". If the total engine sample size is greater than or equal to the minimum required sample size, this status is displayed as "PASS" - otherwise, it is displayed as "OPEN".

III. Entering PLT Engine Test Results

Following the "Summary" worksheet, there are multiple worksheets for "Engine Family #1" through "Engine Family #30." Using these worksheets, enter PLT data for each engine family for CO, PM, HC, and NOx (HC and NOx values are summed and displayed as a combined HC+NOx value, if this option was indicated on the Summary worksheet).

Enter data for the test location/description, whether the engine family is a carryover, reduced sample size (if applicable), fuel type and whether the engine family is Recreational or Commercial. Note that 'HC' refers to 'THC' for diesel fuel, 'NMHC' natural gas fuel, and 'THCE' for alcohol fuel. When the fuel type is selected, a note appears reminding the user of the correct HC variant for the selected fuel.

The engine family name is then entered followed by the engine family's projected annual production, the start/end dates for production and the deterioration factor type, which must be specified as either additive or multiplicative and is automatically displayed in the "Det Factor Type" fields for all pollutants. Under these fields, data for actual production by quarter can be entered. To the right of these fields, enter the FEL/standard, deterioration factor, and green engine factor (if applicable) for each pollutant.

The engine test results should be entered in the "PLT Engine Test Results" section within the Engine Family worksheet in the order in which they occur. The first fourteen fields includes information specific to the test. The initial result can be entered for each pollutant in the relevant columns. The final result and deteriorated final result are displayed if the "Calc Final Result?" field in column B is "Y." At the far right, open fields are available to enter data related to failed tests (if applicable). Failed tests will result in an upward adjustment to the required sample size.

Note that for Category 3 engines, only NOx results need to be entered. The template has been designed so that for Category 3 engines, the engine family PLT status is determined solely on the basis of the NOx results.

The Test Engine worksheets should only include valid test results. Invalid test results should be entered in the "Invalid Tests" worksheet. Any additional notes or information relevant to the PLT information for the engine family can be included in the "Notes" worksheet.

IV. Compliance Summary

The lower portion of the "Summary" worksheet (below the general information entered previously, as described in Section II) includes the summary compliance information for the PLT tests as entered in the Engine Family worksheets. This summary information is in the form of a grid that shows the engine family name along with the result, Standard/FEL, and the test status for each parameter. In addition, for each engine family a Sample Size Status, Test Status, and a Compliance Status is displayed:

- **Sample Size Status:** This value will be OPEN if the number of tests performed for the engine family is less than the required amount (including follow-ups to failed tests). Otherwise, this value will be PASS.
- **Test Status:** This value will be FAIL if a failed status is indicated for any one pollutant. This value will be PASS if all pollutants for the engine family have a passing status.
- **Compliance Status:** If both the test status and sample size status have a value of PASS, the compliance status also has a value of PASS. If the test status has a value of FAIL, then the compliance status will have a value of FAIL regardless of the sample size status value. If the test status has a value of PASS and the sample size status has a value of OPEN, then the compliance status value will be OPEN.

In addition to the sample size status for engine families, for Part 1042 engines and Part 94, Category 1 engines a sample size status is displayed for the category as well. The value of this status will be either OPEN or PASS. If the value is OPEN then a message will appear indicating how many additional tests are needed across the category. Due to rounding it is possible for the sample size status for the category to be OPEN even if the sample size status for all of the engine families is PASS.

V. Troubleshooting

If odd or unexpected results are displayed in the "Summary" worksheet, the following items can be checked:

- Has a category been specified on the "Summary" worksheet and a projected production volume in the Engine Family worksheets?
- Is "Y" indicated for the "Engine Family Testing Completed?" field for each completed Engine Family tab?
- Are all engine tests entered sequentially without skipping rows?
- Is "Y" indicated within the "Calc Final Result" field for rows in which a final result is to be calculated?
- Is there any information that has been inadvertently omitted within any one of the required data fields?

Paperwork Reduction Act Notice

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

OMB No. 2060-0287
Approval Expires on
3/31/2011
EPA Form 5900-XXX



United States
US Environmental Protection Agency
Office of Transportation and Air Quality

Manufacturer Production Line Testing Report for Marine Compression Ignition Engines

Last Revision: May 2013 Version Number: 1.0

Manufacturer and Engine Category Information

Submission Date

Manufacturer:
 PLT Test Contact:
 Email Address:
 Phone #:
 Tier:
 Combined HC+NOx?
 40 CFR Part:

Category:
 Projected Annual Production For Category:
 Number of Completed Engine Family Tests:
 Minimum Required Engine Sample Size For Category:

Current Quarter:

Comments:

Total Production

Compliance Summary

Engine Family	CO			PM			HC			NOx			Sample Size Status	Test Status	Compliance Status
	Final Result (g/kW-hr)	Standard/FEL (g/kW-hr)	Compliance Status	Final Result (g/kW-hr)	Standard/FEL (g/kW-hr)	Compliance Status	Final Result (g/kW-hr)	Standard/FEL (g/kW-hr)	Compliance Status	Final Result (g/kW-hr)	Standard/FEL (g/kW-hr)	Compliance Status			

Number Pas
 Number Fail
 Number Ope

 Category Sa
 Size Status:

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OMB No.
 Approval 3/31
 EPA Form



Basic Information: Engine Family #2

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

PLT Engine Test Results: Engine Family #2

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
2							
3							
4							
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The public reporting and recordkeeping burden for this collection of information is estimated to average 15 minutes per response, including reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any suggested methods for minimizing respondent burden, including suggestions for reducing the number of responses, to Washington, D.C. 20460. Include the OMB control

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Collection of information is estimated to average 12 hours per response. Send comments on the Agency's notice, including through the use of automated collection techniques to the Director, Collection Strategies Division, at the number in any correspondence. Do not send the completed form to this address.



Basic Information: Engine Family #3

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

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Comments:

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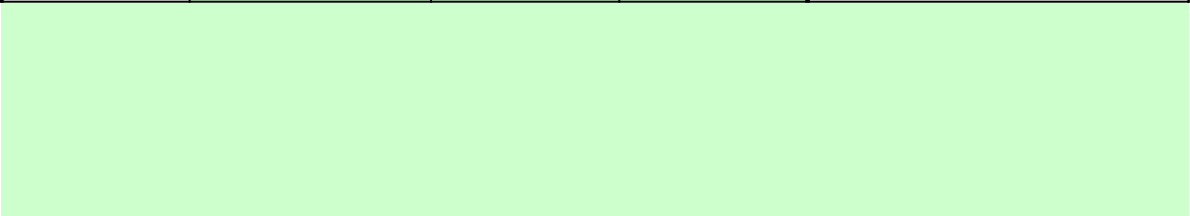
PLT Engine Test Results: Engine Family #3

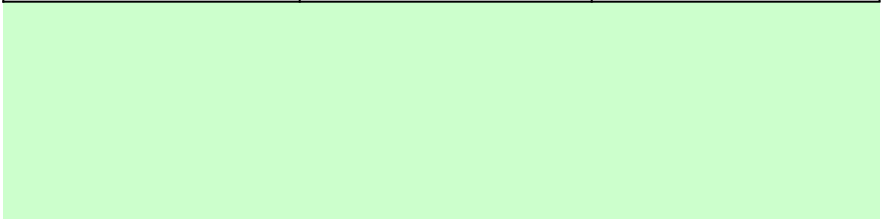
	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and editing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, Washington, D.C. 20543.

ncy's need for this information, the accuracy of the provided burden estimates, Regies Division, U.S. Environmental Protection Agency (2822T), 1200 S.







Basic Information: Engine Family #4

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

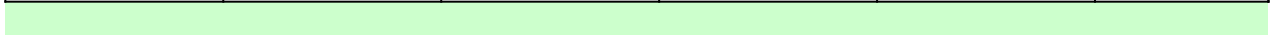
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PLT Engine Test Results: Engine Family #4

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
2							
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 ndent burden, including through the use of automated collection techniques to the Director, Collection Strat
). Include the OMB control number in any correspondence. Do not send the completed form to this address



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Basic Information: Engine Family #5

Manufacturer:	
PLT Test Contact:	
Email Address:	
Phone #:	
Test Location & description:	
Carryover?:	
Pre-approved reduced required sample size:	
Fuel Type:	
Recreational/Commercial:	

Total Actual Production (to date):

Comments:

PLT Engine Test Results: Engine Family #5

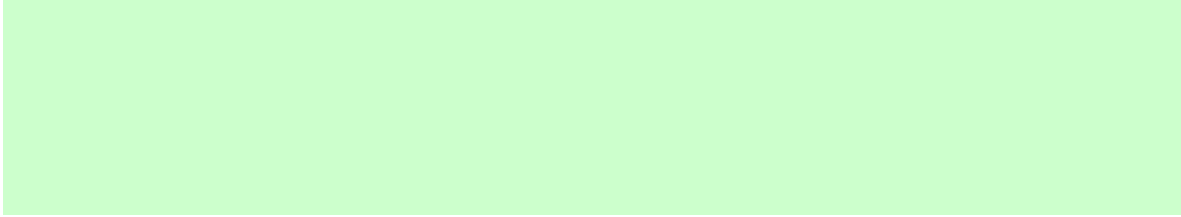
	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington, D.C. 20460.

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Basic Information: Engine Family #6

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

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Comments:

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PLT Engine Test Results: Engine Family #6

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, Washington, D.C. 20543.



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Basic Information: Engine Family #7

Manufacturer:
 PLT Test Contact:
 Email Address:
 Phone #:
 Test Location & description:

Carryover?:
 Pre-approved reduced required sample size:
 Fuel Type:
 Recreational/Commercial:

Total Actual Production (to date):

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Comments:

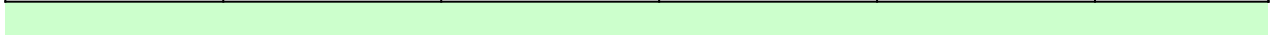
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PLT Engine Test Results: Engine Family #7

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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5							
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering the data needed, reviewing the collection of information, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project (0192-0007), Washington, D.C. 20543-0192

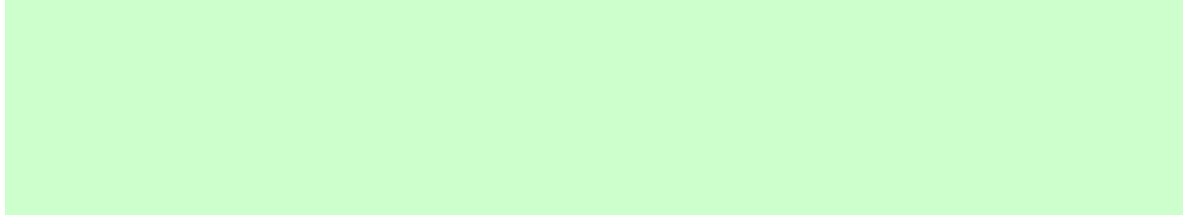


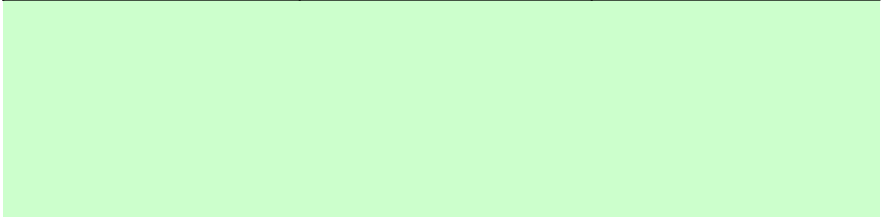
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Basic Information: Engine Family #8

Manufacturer:	
PLT Test Contact:	
Email Address:	
Phone #:	
Test Location & description:	
Carryover?:	
Pre-approved reduced required sample size:	
Fuel Type:	
Recreational/Commercial:	

Total Actual Production (to date):

Comments:

PLT Engine Test Results: Engine Family #8

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
2							
3							
4							
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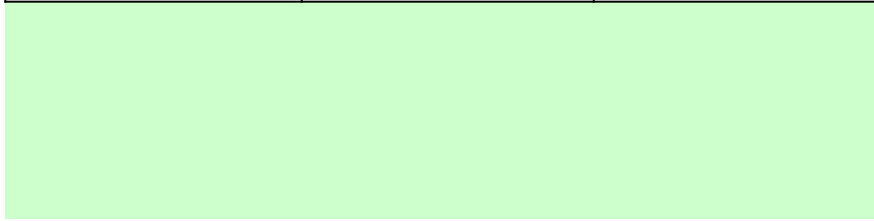
The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and editing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, Washington, D.C. 20543.

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Basic Information: Engine Family #9

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

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PLT Engine Test Results: Engine Family #9

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and editing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Field Office, Department of the Treasury, Paperwork Project, Room 5145, 1111 Constitution Avenue, NW, Washington, D.C. 20460.

Agency's need for this information, the accuracy of the provided burden estimates, and the Regulatory Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460.



Basic Information: Engine Family #10

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

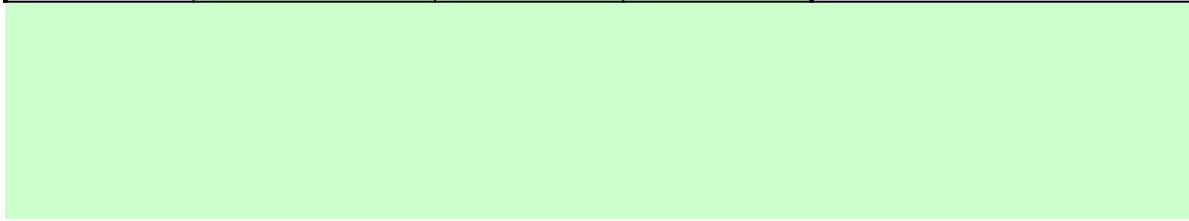
PLT Engine Test Results: Engine Family #10

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and approving the collection of information. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project Director, Washington, D.C. 20543.







Basic Information: Engine Family #11

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

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PLT Engine Test Results: Engine Family #11

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
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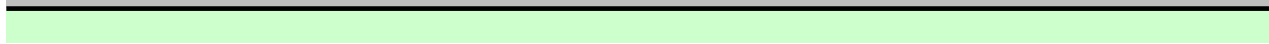
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The public reporting and recordkeeping burden for this collection of information, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results, is estimated to average 1 hour per response. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Service, Paperwork Project (0192-0108), Washington, D.C. 20543.



Paperwork Reduction Act Notice

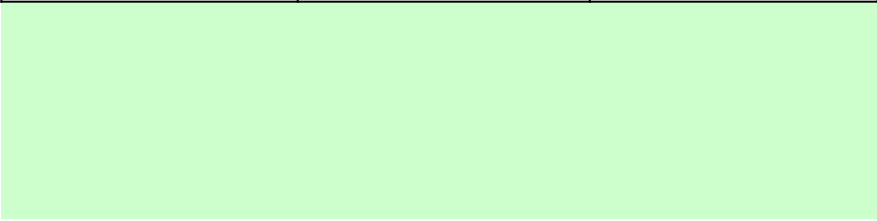
For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's estimate of the burden, including through the use of automated collection techniques to the Director, Collection Strategy and Burden Reduction (2050-0100). Include the OMB control number in any correspondence. Do not send the completed form to this address.



ncy's need for this information, the accuracy of the provided burden estimates, Regies Division, U.S. Environmental Protection Agency (2822T), 1200 S.









Basic Information: Engine Family #12

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

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PLT Engine Test Results: Engine Family #12

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
2							
3							
4							
5							
6							
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The public reporting and recordkeeping burden for this collection of information is estimated to average 15 minutes per response, including reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, U.S. Department of Justice, Office of Management and Budget, Paperwork Project, 441 G Street, NW, Washington, D.C. 20543.

Agency's need for this information, the accuracy of the provided burden estimates,
Regulations Division, U.S. Environmental Protection Agency (2822T), 1200
S.



Final NOx Result

NOx Standard or FEL	<input style="width: 100%; height: 20px;" type="text"/>
Units	g/kW-hr
NOx Det Factor	<input style="width: 100%; height: 20px;" type="text"/>
Det Factor Type	<input style="width: 100%; height: 20px;" type="text"/>
NOx Green Engine Factor	<input style="width: 100%; height: 20px;" type="text"/>



NOx Initial Result	Rounded NOx Initial Result	NOx Final Result	Det. NOx Final Result	Reason for Failed Test (if applicable)
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Basic Information: Engine Family #13

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

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Comments:

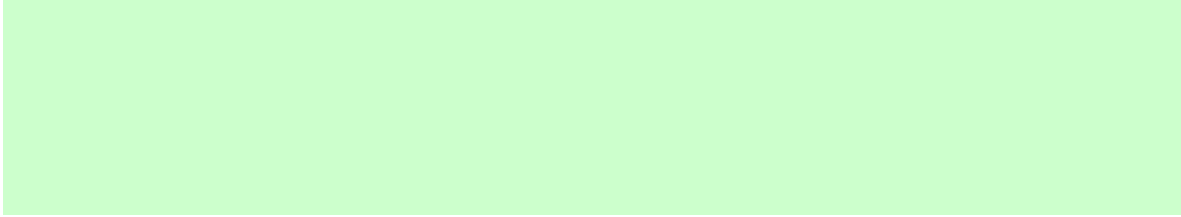
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PLT Engine Test Results: Engine Family #13

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and reviewing and reporting the data. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, U.S. Department of Justice, Office of Management and Budget, Paperwork Project, 1215 Pennsylvania Ave., NW, Washington, D.C. 20460









Basic Information: Engine Family #14

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

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Comments:

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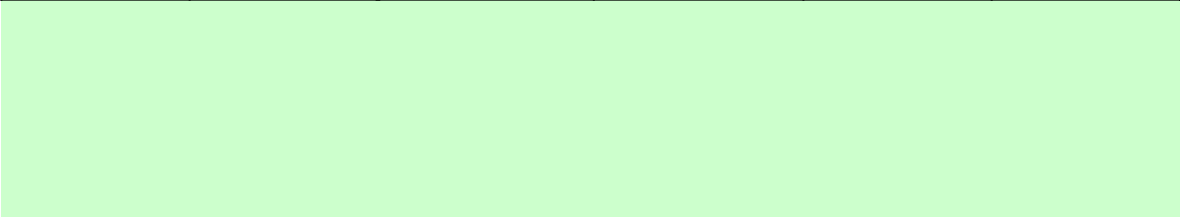
PLT Engine Test Results: Engine Family #14

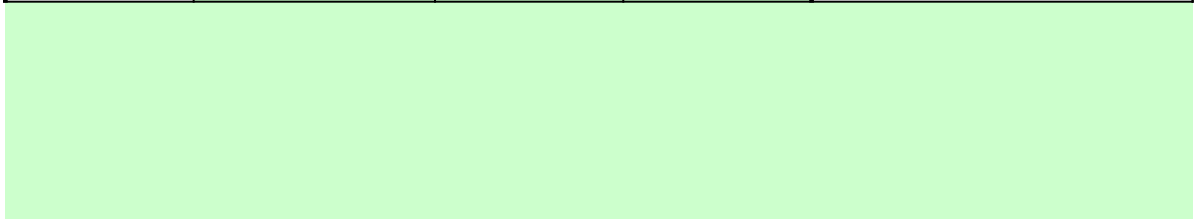
	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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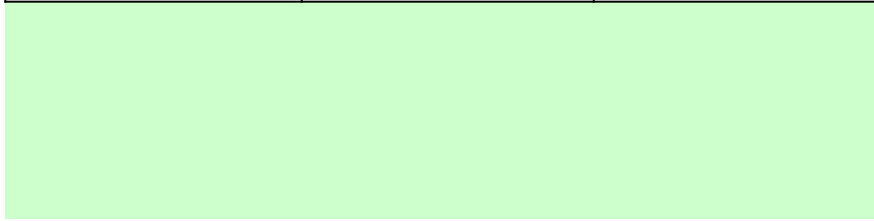
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, Washington, D.C. 20543.

Agency's need for this information, the accuracy of the provided burden estimates, and the Agency's contact information. For more information, please contact the Information Policy and Regulatory Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460.









Basic Information: Engine Family #15

Manufacturer:	
PLT Test Contact:	
Email Address:	
Phone #:	
Test Location & description:	

Carryover?:	
Pre-approved reduced required sample size:	
Fuel Type:	
Recreational/Commercial:	

Total Actual Production (to date):	
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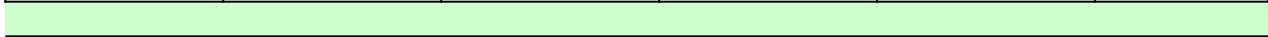
Comments:	
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PLT Engine Test Results: Engine Family #15

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
2							
3							
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project (0142-0007), Washington, D.C. 20460.

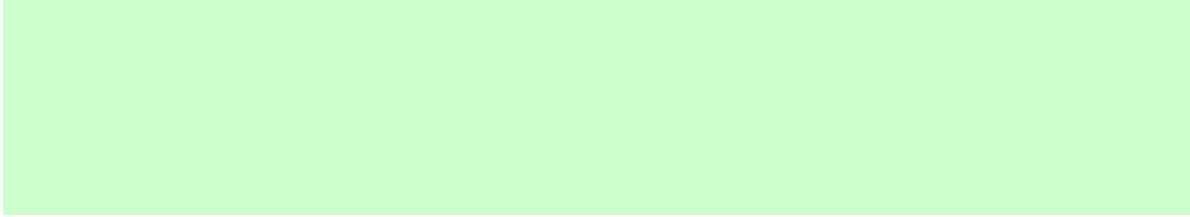


Paperwork Reduction Act Notice

For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's estimated burden, including through the use of automated collection techniques to the Director, Collection Strategies and Burden Reduction (0470-0042). Include the OMB control number in any correspondence. Do not send the completed form to this address.



ncy's need for this information, the accuracy of the provided burden estimates,
egies Division, U.S. Environmental Protection Agency (2822T), 1200
S.







Basic Information: Engine Family #16

Manufacturer:	
PLT Test Contact:	
Email Address:	
Phone #:	
Test Location & description:	
Carryover?:	
Pre-approved reduced required sample size:	
Fuel Type:	
Recreational/Commercial:	

Total Actual Production (to date):

Comments:

PLT Engine Test Results: Engine Family #16

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and editing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, U.S. Department of Justice, Office of Management and Budget, Paperwork Project, 1215 Pennsylvania Ave., NW, Washington, D.C. 20460

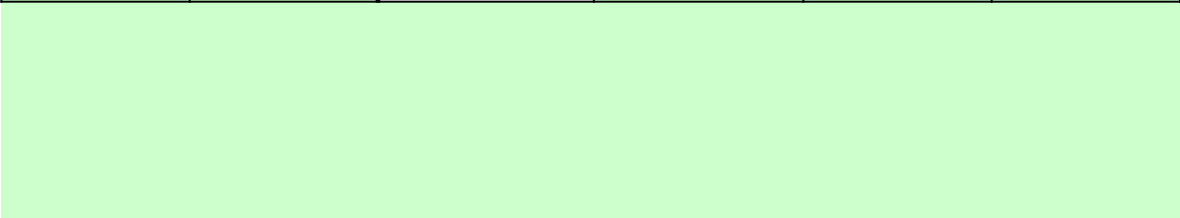


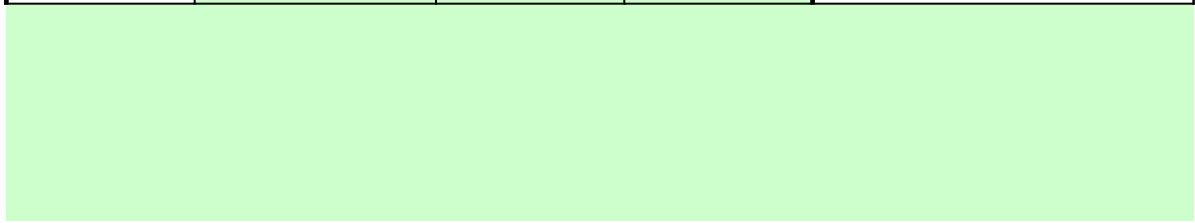
Paperwork Reduction Act Notice

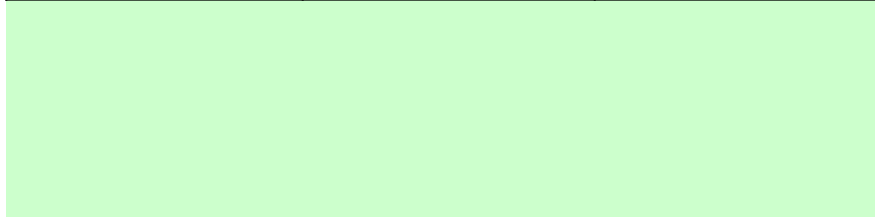
For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's proposed information collection, including suggestions for reducing the burden, to the Director, Office of Management and Enterprise Services, Paperwork Reduction Project (1545-0047), Washington, DC 20503.



Agency's need for this information, the accuracy of the provided burden estimates, and the needs of the Regulated Entities Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460. EPA-335









Basic Information: Engine Family #17

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

PLT Engine Test Results: Engine Family #17

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
2							
3							
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and reviewing and revising the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Field Office, Department of the Treasury, Paperwork Project, 1500 Pennsylvania Ave., NW, Washington, D.C. 20460.

gency's need for this information, the accuracy of the provided burden estimates,
egies Division, U.S. Environmental Protection Agency (2822T), 1200
S.



Basic Information: Engine Family #18

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

PLT Engine Test Results: Engine Family #18

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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2							
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and completing the review of comments and suggestions. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington, D.C. 20460.

gency's need for this information, the accuracy of the provided burden estimates, Regies Division, U.S. Environmental Protection Agency (2822T), 1200 S.







Basic Information: Engine Family #19

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

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PLT Engine Test Results: Engine Family #19

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
2							
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and editing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, U.S. Department of Justice, Office of Management and Budget, Paperwork Project, 1215 Pennsylvania Ave., NW, Washington, D.C. 20460

Agency's need for this information, the accuracy of the provided burden estimates, Regulatory Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460





Basic Information: Engine Family #20

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

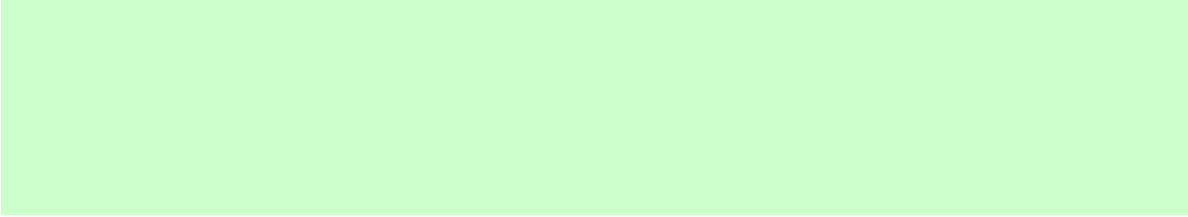
PLT Engine Test Results: Engine Family #20

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
1							
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and completing the review of comments and suggestions. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington, D.C. 20460.

Agency's need for this information, the accuracy of the provided burden estimates, and the Regulatory Information System (RIS) project. For more information, contact the Regulatory Information System (RIS) Project Manager, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460.







Basic Information: Engine Family #21

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

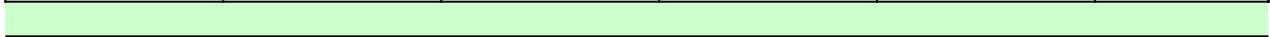
Comments:

PLT Engine Test Results: Engine Family #21

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, Washington, D.C. 20543.

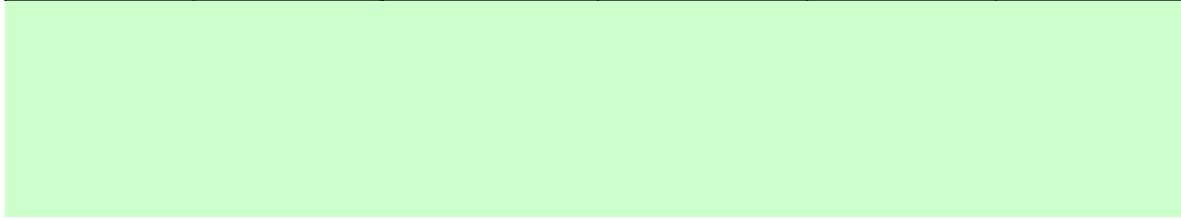


Paperwork Reduction Act Notice

For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's estimated burden, including through the use of automated collection techniques to the Director, Collection Strategies and Methods, Office of Management and Budget, Paperwork Project Room (3950), Washington, DC 20503. Include the OMB control number in any correspondence. Do not send the completed form to this address.



agency's need for this information, the accuracy of the provided burden estimates, and the Agency's ability to collect the information. For more information, contact the Regulatory Information Systems Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460.



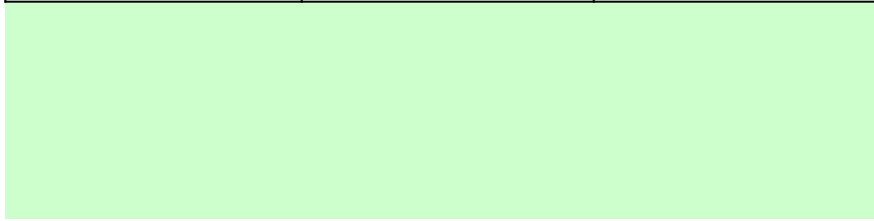


Final NOx Result	<input style="width: 100px; height: 20px;" type="text"/>
NOx Standard or FEL	<input style="width: 100px; height: 20px;" type="text"/>
Units	g/kW-hr
NOx Det Factor	<input style="width: 100px; height: 20px;" type="text"/>
Det Factor Type	<input style="width: 100px; height: 20px;" type="text"/>
NOx Green Engine Factor	<input style="width: 100px; height: 20px;" type="text"/>



NOx Initial Result	Rounded NOx Initial Result	NOx Final Result	Det. NOx Final Result	Reason for Failed Test (if applicable)
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Basic Information: Engine Family #22

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

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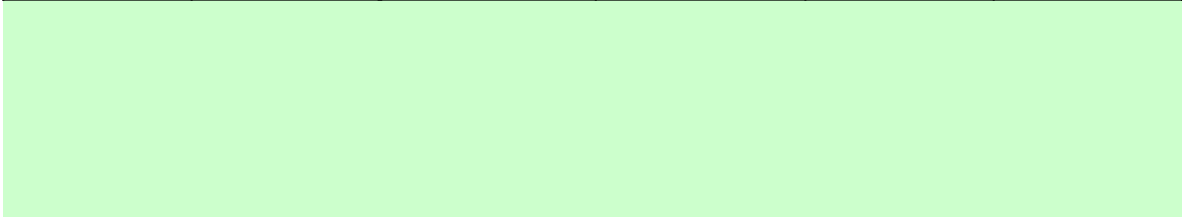
PLT Engine Test Results: Engine family #22

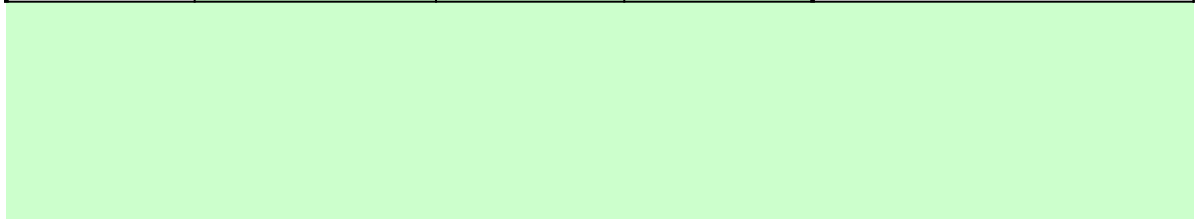
	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and editing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, U.S. Department of Justice, Office of Management and Budget, Paperwork Project, 441 G Street, NW, Washington, D.C. 20460.

ncy's need for this information, the accuracy of the provided burden estimates,
egies Division, U.S. Environmental Protection Agency (2822T), 1200
S.









Basic Information: Engine Family #23

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

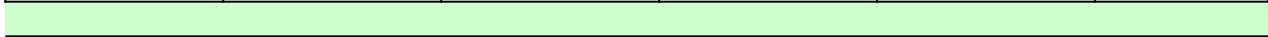
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PLT Engine Test Results: Engine Family #23

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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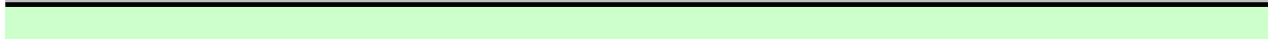
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 15 minutes per response, including reviewing instructions, gathering existing data, reviewing collected data, reviewing and reporting the results of your analyses, and reviewing and reporting the results of your analyses. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Project Director, Paperwork Reduction Project (1545-0047), 1215 Pennsylvania Ave., NW, Washington, D.C. 20460.

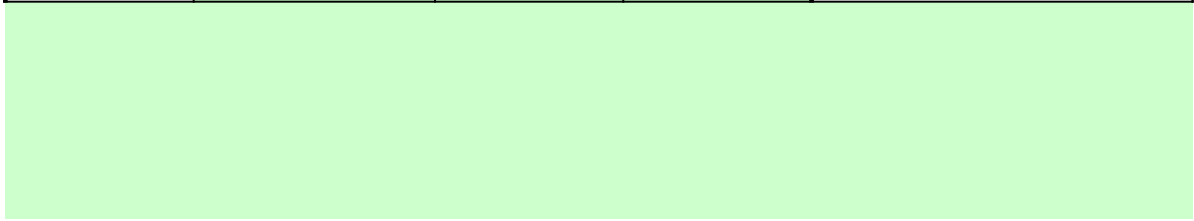


Paperwork Reduction Act Notice

For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's estimate of the burden of this collection of information, including suggestions for reducing the burden, through the use of automated collection techniques to the Director, Collection Strategies and Methods, Office of Management and Budget, Paperwork Project Team, (2025) Paperwork Reduction Project (1590-0042). Include the OMB control number in any correspondence. Do not send the completed form to this address.











Basic Information: Engine Family #24

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

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Comments:

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PLT Engine Test Results: Engine Family #24

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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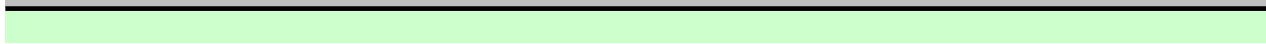
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and revising the answers, and reviewing and approving the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, Washington, D.C. 20543.

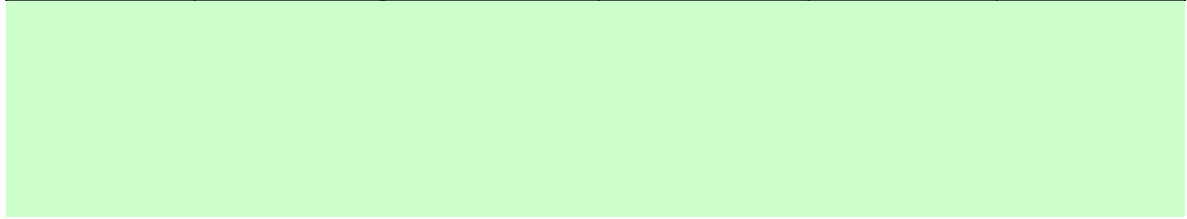


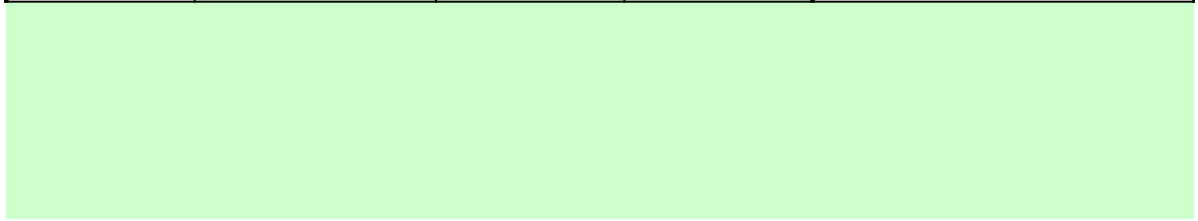
Paperwork Reduction Act Notice

For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's estimate of the burden, including through the use of automated collection techniques to the Director, Collection Strategy, OMB (2025-07-07-0001). Include the OMB control number in any correspondence. Do not send the completed form to this address.



ncy's need for this information, the accuracy of the provided burden estimates, Regies Division, U.S. Environmental Protection Agency (2822T), 1200 S.







Basic Information: Engine Family #25

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

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Comments:

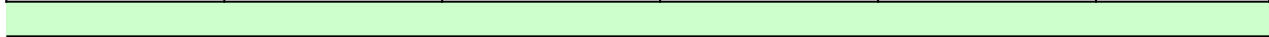
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PLT Engine Test Results: Engine Family #25

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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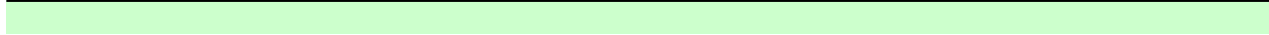
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 15 minutes per response, including reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the responses, and reviewing the collection of responses. Send comments regarding this burden estimate or any suggested method for minimizing the burden, including suggestions for reducing the number of pieces of information, to the Office of Management and Budget, Paperwork Project, Washington, D.C. 20460.

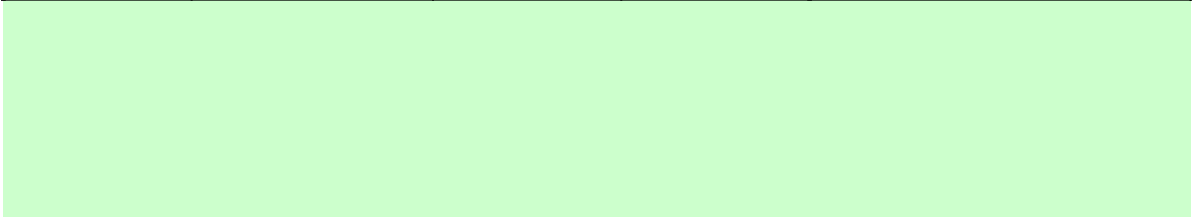


Paperwork Reduction Act Notice

For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's estimate of the burden, including through the use of automated collection techniques to the Director, Collection Strategy Division, OMB, Washington, DC 20503. Include the OMB control number in any correspondence. Do not send the completed form to this address.



Agency's need for this information, the accuracy of the provided burden estimates,
 Regulatory Division, U.S. Environmental Protection Agency (2822T), 1200
 S.





Basic Information: Engine Family #26

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

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Comments:

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PLT Engine Test Results: Engine Family #26

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 2 hours per response, including reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and approving the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington, D.C. 20460.



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Alcohol 3

Recreational
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Basic Information: Engine Family #27

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

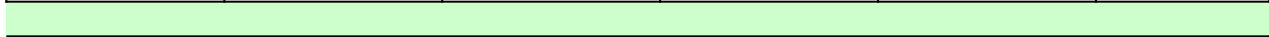
Comments:

PLT Engine Test Results: Engine Family #27

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington Headquarters Service, Paperwork Project, Washington, D.C. 20543.



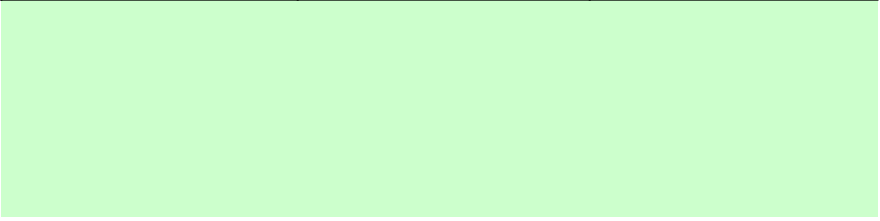
Paperwork Reduction Act Notice

For this collection of information is estimated to average 12 hours per response. Send comments on the Agency's estimated burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, Office of Management and Budget, Paperwork Project Group, Washington, DC 20503. Include the OMB control number in any correspondence. Do not send the completed form to this address.



ncy's need for this information, the accuracy of the provided burden estimates, egies Division, U.S. Environmental Protection Agency (2822T), 1200 S.







Basic Information: Engine Family #28

Manufacturer:

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PLT Test Contact:

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Email Address:

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Phone #:

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Test Location & description:

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Carryover?:

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Pre-approved reduced required sample size:

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Fuel Type:

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Recreational/Commercial:

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Total Actual Production (to date):

Comments:

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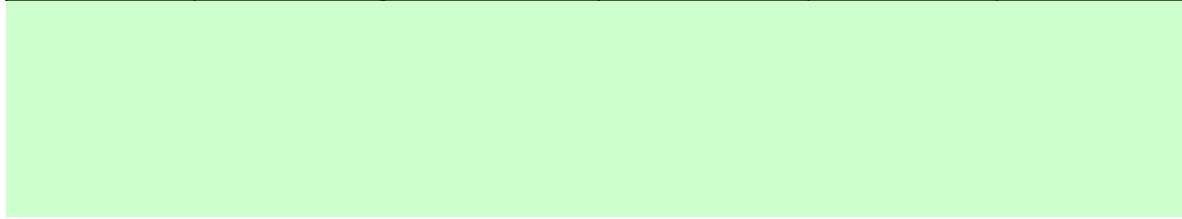
PLT Engine Test Results: Engine Family #28

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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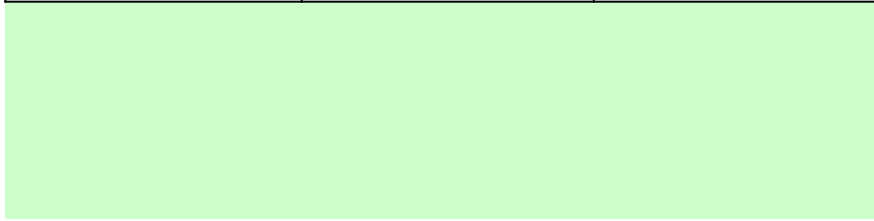
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The public reporting and recordkeeping burden for this collection of information, including any suggested methods for minimizing the burden, are estimated to average approximately 1 hour per response. For more information, contact the Office of Management and Enterprise Services, Paperwork Reduction Project (3045-0082), Pennsylvania Ave., NW, Washington, D.C. 20460.

Agency's need for this information, the accuracy of the provided burden estimates, Regulations Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460-0103.









Basic Information: Engine Family #29

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

Comments:

PLT Engine Test Results: Engine Family #29

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and editing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for minimizing this burden, to Washington, D.C. 20460.

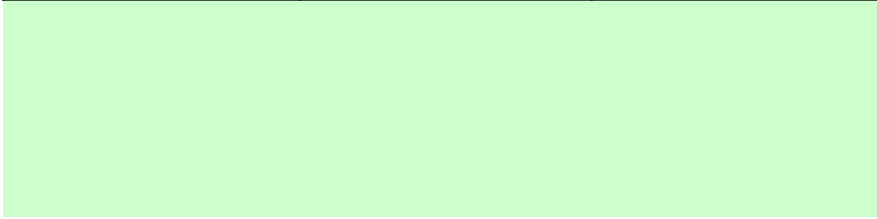


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Basic Information: Engine Family #30

Manufacturer:
PLT Test Contact:
Email Address:
Phone #:
Test Location & description:

Carryover?:
Pre-approved reduced required sample size:
Fuel Type:
Recreational/Commercial:

Total Actual Production (to date):

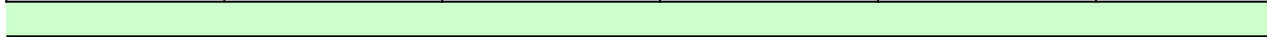
Comments:

PLT Engine Test Results: Engine Family #30

	Calc Final Result?	Test Number	Test Date	Test Time	Test Qtr	Engine ID	Engine Make
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The public reporting and recordkeeping burden for this collection of information has been estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, reviewing and collecting the data, and reviewing and reporting the results. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for minimizing this burden, to Washington, D.C. 20460.

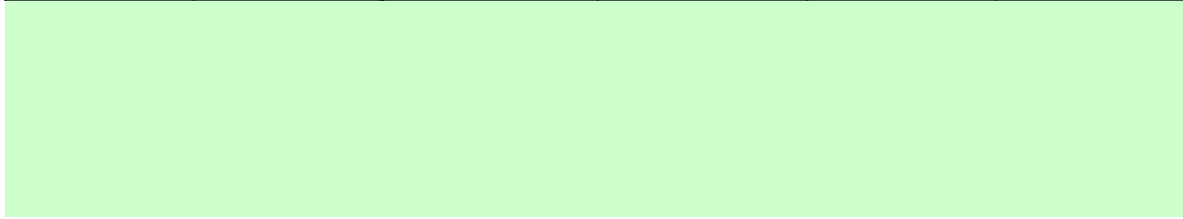


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gency's need for this information, the accuracy of the provided burden estimates, Regies Division, U.S. Environmental Protection Agency (2822T), 1200 S.







United States
US Environmental Protection Agency
Office of Transportation and Air Quality

Manufacturer Production Line Testing Report for Marine Compression Ignition Engines

Last Revision: May 2013 Version Number: 1.0

Manufacturer Notes

Please provide any additional notes here.

Paperwork Reduction Act Notice

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OMB No. 2060-0287
Approval Expires on
3/31/2011
EPA Form 5900-XXX