Engine Certification Template in FileMaker Pro.

| Summary | Family Info | Test Info | Supp. Test | Part Info | Model Info | GHG | Tech Desc | Certificate | Check Sheet |

Stage 1 Review PERSON & DATE
Open field
Reviewer
CERT #

Date Received
Certificate Status
Printed to AA
Sent to Database
CATALOG #

Previous Cert # for FEL, RC, & corrections

Main Menu	Import Records	Cert. Numbers	Instructions
Database	Diagnostic Check	Generate Certificate	
	Print Record	Send to Database	

Large Engine
Data Entry Queue

Note: To generate the correct cert, make sure the Engine category
and Applicable Regulations category match

Manufacturer

Engine category:

Cert contact:

☐ Change of Address

Applicable Regulations

○ Part 89
○ Part 1039 } Nonroad CI
○ Part 60 only certified to requirements of Part 1039 }
○ Part 60 only certified to requirements of Part 89 } Stationary only
○ Part 60 and Part 1039 } Stationary-Nonroad CI
○ Part 60 and Part 89 }

Important contact Information-the email needs to be filled
out before a certificate can be created.

1. **Model Year:**
2. Carryover:
   If yes, list the previous family:
3. **Process Code:**
4. **EPA Engine Family:**
   Date EPA Fee Paid:
5. Mfr's Family Name:
6. Engine Cycle:
7. Displace.(s) (cid Or Lit.)
8. Engine Configuration:
9. Emission Control System:

☐ Catalyst	☐ Lean NOx
☐ 3W Catalyst	☐ NOx adsorber
☐ Engine Modification	☐ SCR
☐ Electronic Control	☐ DOC
☐ Smoke Puff Limiter	☐ EGR
☐ Passive DPF	☐ None
☐ Active DPF	☐ Other...

If Other Describe:

10. Fuel Type:
11. Fuel System Type:
12. Method of Aspiration:

First name
Last name
Address

City   State
Zip
Phone
Fax
Email
Country

16. Projected Sales : TOTAL
                        FED
                        CA

17. Estimated   Start
Production Period: End

Fee paid ----->

Family Form Checkout - A4

Test Form Checkout - A9

150 ◂◂◂ ▭ Find ▾ ◂

| Summary | Family Info | **Test Info** | Supp. Test | Part Info | Model Info | GHG | Tech Desc | Certificate | Check Sheet |

Stage 1 Review PERSON & DATE

Date Received

Open field

Certificate Status

Reviewer

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CERT #

Sent to Database

CATALOG #

Large Engine
Data Entry Queue
Test Info

3. TEST DATA SET:

4. Engine Code:

5. Engine Model:

6. Displacement(s)
(cid Or Liters):

7. Engine I.d. Number:

8. Rated HP @ Rated
RPM: @

9. Torque (ft-lb) @
Engine RPM: @

10. WAIVERs: CO   PM   SMOKE   IDLE CO

11. COLD START:

12. Certification Fuel:

13. Special Test Device   ☐ Yes

14 Test Procedure:

15. Crankcase emissions (CCEs)
○ **CCEs routed into the air inlet system**
○ **CCEs routed into the exhaust upstream of aftertreatment**
○ **CCEs measured separately from exhaust emissions**
If the CCEs are measured separately list them in the tech. description (item 13) and account
for them in the test results listed below.

16. Official Test Results   **Date:**

	Test 1	Test 2	Test 3	17. Deterioration Factors
HC/OMHCE				
NMHC/OMNMHCE				
HC + NOx				
CARBON MONOXIDE				
OXIDE OF NITROGEN				
PARTICULATE				
FORMALDEHYDE				

Family Form Checkout - A4

Test Form Checkout - A9

| Summary | Family Info | Test Info | Supp. Test | Part Info | Model Info | GHG | Tech Desc | Certificate | Check Sheet |

Stage 1 Review PERSON & DATE

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Open field

Certificate Status

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CERT #

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CATALOG #

Large Engine
Data Entry Queue
Suppl. Test Info

Confidential Business Information

CBI Until Introduction into Commerce

CBI Indefinitely

CBI date

Test Engine Information

9. Torque (ft-lb) @ _____ @
Engine RPM: _____

3. Test Data Set: _____

CO   PM   SMOKE

4. Engine Code: _____

10. WAIVERs: _____

5. Engine Model: _____

11. Cold Start? _____

6. Displacement(s)
(cid Or Liters): _____

12. Certification Fuel: _____

7. Engine I.d. Number: _____

13. Special Test Device: _____

8. Rated HP @ _____ @
Rated RPM: _____

14. Test Procedure: _____

Mystery Points
% Speed   % Load

15. Supplemental Euro III Test Information

Test Date: _____   A Speed: _____ (RPM)   A Speed Max Torque: _____ (ft-lbs)

N_{lo} Speed: _____ (RPM)   B Speed: _____ (RPM)   B Speed Max Torque: _____ (ft-lbs)

N_{hi} Speed: _____ (RPM)   C Speed: _____ (RPM)   C Speed Max Torque: _____ (ft-lbs)

16. Supplemental Euro III Modal Results (g/bhp-hr):   ESC Test Point

	1	2	3	4	5	6	7	8	9	10	11	12	13	Myst 1	Myst 2	Myst 3
HC/OMHCE																
NMHC/OMNMHCE																
HC + NOx																
CO																
NOx																

| Summary | Family Info | Test Info | Supp. Test | Part Info | Model Info | GHG | Tech Desc | Certificate | Check Sheet |

Stage 1 Review PERSON & DATE

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Reviewer

Printed to AA

Email to processor

Sent to Database

CERT #

CATALOG #

Large Engine
Data Entry Queue
Part Info.

Engine Code   Engine Model   Injection Pump   Injector   Turbo Charge   Electronic Control Module   After Treatment Device (Specify)   Smoke Puff Limiter   Sensor Assemblies   Description   Part Number

Confi...
Bus...

CBI Until Introduction into Commerce

XBI Sc...
Engine Mod...

The entire Part N...
CBI (no). If you i...
will be considere...
blank, all of the i...

Family Form ...

Summary | Family Info | Test Info | Supp. Test | Part Info | **Model Info** | GHG | Tech Desc | Certificate | Check Sheet

Stage 1 Review PERSON & DATE	Date Received
Open field	Certificate Status
Reviewer	Printed to AA
Email to processor	Sent to Database
CERT #	CATALOG #

Sort models by Fuel rate@ peak HP

Sort models by Fuel rate@ peak Torque

Sort models by HP

Large Engine

Data Entry Queue

Model Info.

Sorted by: Default Order

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930

Cor

CBI Until Introduction Commerce

XB

Engine M

Layout: GHG | View As: | Matching records: Include Omit | Insert: Operators

| Summary | Family Info | Test Info | Supp. Test | Part Info | Model Info | GHG | Tech Desc | Certificate | Check Sheet |

Stage 1 Review PERSON & DATE

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CATALOG #

1. Is this family certifying to 1036.620 Alternate CO2 standards based on a previous model year compression-ignition engine?

    1a. Engine family name that the reduction is based on.   1b. Percent reduction

1c. Date of certification   1d. NOx cert. level

1e. Test date   1f. Fuel used

1g. Measured FTP CO_2 level   1h. Adjusted FTP CO_2 level

1i. Measured RM* CO_2 level   1j. Adjusted RM* CO_2 level

    *Ramped-modal

2. Is this family certifying to 1036.150(e) Alternate phase-in standards?

3. Is this family generating or using GHG credits?

4. Specify the type of credit provision that is being utilized and attach your credit documentation.

    Explanation   Credit Document

Confidential Business Information

GHG Information

5. Primary Intended Service Class If the engines are used as both vocational and tractor engines, you must split your family into two separate subfamilies.

    ○ Tractor
    ○ Vocational
    ○ Tractor/Vocational

6. Production (estimated):   Total family volume

                 Vocation sub-family volume

                 Tractor sub-family volume

◀	▶	1		📇 1 Total									🔍 ▾
		Find Requests				New Request	Delete Request	Perform Find	Cancel Find				Saved Finds

Layout: TECHNICAL DESCRIPTI... ▼   View As: ▭ ☰ ▦   Matching records: Include   Omit   Insert: Operators ▼

Summary	Family Info	Test Info	Supp. Test	Part Info	Model Info	GHG	Tech Desc	Certificate	Check Sheet

Stage 1 Review PERSON & DATE

Date Received

Open field

Certificate Status

Reviewer

Printed to AA

Email to processor

Sent to Database

CERT #

CATALOG #

Large Engine

Data Entry Queue

Technical Description

1. Diagrams/ Drawings/Schematics:

2. Diagrams/ Drawings/Schematics:

Confidential Business Information

CBI Until Introduction into Commerce	CBI Indefinitely

CBI date

Technical Description

3. Diagrams/ Drawings/Schematics:

4. Diagrams/ Drawings/Schematics:

More container fields are located after the t
Description

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF TRANSPORTATION AND AIR QUALITY
WASHINGTON, DC 20460

CERTIFICATE OF CONFORMITY

Manufacturer:

Greenhouse Gas Info.

Engine Family:
Certificate Number:
Intended Service Class:
Fuel Type:
FELs: NMHC+NOx:
               NOx:
               PM:

Primary Intended Service Class:
Primary Test Configuration FTP (if applicable):
   CO_2 FCL value (g/hp-hr)
   CO_2 FEL value (g/hp-hr)
   N_2O FEL value (g/hp-hr)
   CH_4 FEL value (g/hp-hr)
Primary Test Configuration Ramped-modal(if applicable):
   CO_2 FCL value (g/hp-hr)
   CO_2 FEL value (g/hp-hr)

Effective Date:
Date Issued:

Byron J. Bunker, Director
Compliance Division
Office of Transportation and Air Quality

Back to Family Form

Test Print to your Printer

Send Certificate   <-----Use this button to proc

Date Sent

You can modify almost all text on this page

Reissue Certificate   <-----Use this button to reissue an
                              processed certificate

FEL History of this family:

Cert #	Date Issued	Nox FEL	PM FEL

	1		1					
◄ ◄ ► ►		📇	Total					
Find Requests				New Request	Delete Request	Perform Find	Cancel Find	Saved Finds

Layout: [Check Sheet ▼]   View As: [▦] [☰] [▦]   Matching records: [Include] [Omit]   Insert: [Operators ▼]

Summary	Family Info	Test Info	Supp. Test	Part Info	Model Info	GHG	Tech Desc	Certificate	Check Sheet

Stage 1 Review PERSON & DATE

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Large Engine
Data Entry Queue
Check Sheet

Fuel Type: [   ] Carryover ? [   ]

Application Media: ☐ Disk ☐ E-mail ☐ Paper

Additional Submissions?
(e.g. Compliance Statement on
paper, Technical Description on

New Submission Review

Stage 1 Review (SEEP)

1. Are all blanks filled in? If no, call manufacturer to resubmit complete application, check on-hold box at end of check sheet.

2. Compliance statement present and signed?

3. If tech description referenced, is description less than 5 years old?

4. Is engine family named correctly? (Model year, engine category, displacement, correct for production period, etc.)

5. CBI claims present? (Check for consistency between CBI claims on application form and in compliance statement)

6. Introduction into commerce date consistent with production period?

7. Alternate test procedures, if applicable, referenced in compliance statement and/or in application?

8. Correction factors, if applicable, listed in compliance statement or in application?

1 ☐ Yes ☐ No ☐ NA
2 ☐ Yes ☐ No ☐ NA
3 ☐ Yes ☐ No ☐ NA
4 ☐ Yes ☐ No ☐ NA
5 ☐ Yes ☐ No ☐ NA
6 ☐ Yes ☐ No ☐ NA
7 ☐ Yes ☐ No ☐ NA
☐ Yes ☐ No ☐ NA