File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-96

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Caterpillar, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

Engine Family	Engine Displacement Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TCP893EZDARK	14.6	(893)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
TCP893EZDARK	0.3	1.3	4.5	0.09

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 2nd day of November 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O. # A-13-96

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP893EZDARK

Displacement: 14.6 / Liters 893 / Cubic Inches

Maximum Rated Power: 560 HP @ 1800 RPM Engine Configuration: I6

Ignition: Compression X Compression with Glow Plug ___ Spark ___

Fuel Type (s): Dedicated ___ Flex-Fuel ___ Dual-Fuel ___ Diesel X M100 ___ M85 ___

CNG ___ LNG ___ LPG ___ Other (specify) ___

Diesel Cert Fuel: 13CCR 2282 ___ 40 CFR 86.1313-90 ___ 40 CFR 86.1313-94 X

Primary Intended Service Class: LHD ___ MHD ___ HHD X Urban Bus ___

Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm³/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3406E - 1	550 @ 1800	292 (176.7)	1171149	1307115	---	---
3406E - 2	550 @ 1800	292 (176.7)	1171149	1307118		
3406E- -3	500 @ 1800	265 (160.5)	1171149	1303205		
3406E - 4	500 @ 1800	262 (158.5)	1171149	1303202		
3406E - 5	475 @ 1800	251 (151.9)	1171149	1286579		
3406E - 6	475 @ 1800	246 (149.7)	1171149	1286574		
3406E - 7	455 @ 1800	241 (145.9)	1170484	1303197		
3406E - 8	455 @ 1800	237 (143.8)	1170484	1303194		
3406E - 9	435 @ 1800	230 (139.4)	1170484	1303172		
3406E - 10	435 @ 1800	227 (137.3)	1170484	1303169		
3406E - 11	410 @ 1800	225 (136.4)	1170483	1286577		
3406E - 12	410 @ 1800	222 (134.2)	1170483	1286573		
3406E - 13	375 @ 1800	206 (124.8)	1170483	1307134		
3406E - 14	375 @ 1800	206 (124.8)	1170483	1307138		
3406E - 15	355 @ 1800	193 (117.1)	1170483	1307126		
3406E - 16	355 @ 1800	193 (117.1)	1170483	1307130		
3406E - 17	355 @ 1800	193 (117.1)	1170483	1307122		
3406E - 18	330 @ 1800	182 (110.4)	1183847	1299307		
3406E - 19	310 @ 1800	174 (105.2)	1183847	1299298		
3406E - 20	310 @ 1800	174 (105.2)	1183847	1299301		
3406E - 21	310 @ 1800	174 (105.2)	1183847	1299304		

ISSUE DATE	08 SEPT 95							
REVISION NUMBER								
REVISION DATE								

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HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP893EZDARK

Displacement: 14.6 / Liters: 893 / Cubic Inches

Maximum Rated Power: 500 HP @ 1800 RPM Engine Configuration: I6

Ignition: Compression X Compression with Glow Plug ___ Spark ___

Fuel Type (s): Dedicated ___ Flex-Fuel ___ Dual-Fuel ___ Diesel X M100 ___ M85 ___

CNG ___ LNG ___ LPG ___ Other (specify) ___

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(Use abbreviations per SAE J1930 SEP91)

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3406E - 19	410 @ 1800	222 (134.2)	1170483	1307142	---	---
3406E - 20	375 @ 1800	206 (124.8)	1170483	1307134	---	---
3406E - 21	375 @ 1800	206 (124.8)	1170483	1307138	---	---
3406E - 22	375 @ 1800	194 (117.7)	1170483	1297749	---	---
3406E - 23	375 @ 1800	194 (117.7)	1170483	1352731	---	---
3406E - 24	355 @ 1800	193 (117.1)	1170483	1307126	---	---
3406E - 25	355 @ 1800	193 (117.1)	1170483	1307130	---	---
3406E - 26	355 @ 1800	193 (117.1)	1170483	1307122	---	---
3406E - 27	355 @ 1800	193 (117.1)	1170483	1343001	---	---
3406E - 28	330 @ 1800	182 (110.4)	1183847	1299307	---	---
3406E - 29	310 @ 1800	174 (105.2)	1183847	1299298	---	---
3406E - 30	310 @ 1800	174 (105.2)	1183847	1299301	---	---
3406E - 31	310 @ 1800	174 (105.2)	1183847	*1379541*	---	---

ISSUE DATE	08 DEC 95							
REVISION NUMBER	1	2	3	4	*5*			
REVISION DATE	22 JAN 96	23 JAN 96	07 FEB 96	02 APR 96	*23 MAY 96*			

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3406E - 1	550 @ 1800	292 (176.7)	1171149	1307115	---	---
3406E - 2	550 @ 1800	292 (176.7)	1171149	1307118	---	---
3406E - 3	500 @ 1800	270 (163.4)	1171149	1164360	---	---
3406E - 4	500 @ 1800	265 (160.5)	1171149	1303205	---	---
3406E - 5	500 @ 1800	262 (158.5)	1171149	1303202	---	---
3406E - 6	475 @ 1800	253 (153.4)	1171149	1286577	---	---
3406E - 7	475 @ 1800	250 (151.3)	1171149	1286573	---	---
3406E - 8	455 @ 1800	246 (149.2)	1170484	1303197	---	---
3406E - 9	455 @ 1800	243 (147.1)	1170484	1303194	---	---
3406E - 10	*435 @ 1800*	*241 (145.8)*	*1170484*	*1324396*	---	---
3406E - *11*	435 @ 1800	236 (142.7)	1170484	1303172	---	---
3406E - *12*	435 @ 1800	232 (140.6)	1170484	1303169	---	---
3406E - *13*	410 @ 1800	225 (136.4)	1170483	1307147	---	---
3406E - *14*	410 @ 1800	222 (134.2)	1170483	1307142	---	---
3406E - *15*	375 @ 1800	206 (124.8)	1170483	1307134	---	---
3406E - *16*	375 @ 1800	206 (124.8)	1170483	1307138	---	---
3406E - *17*	375 @ 1800	194 (117.7)	1170483	1297749	---	---

ISSUE DATE	08 SEPT 95							
REVISION NUMBER	1	2	3					
REVISION DATE	09 NOV 95	08 DEC 95	*22 JAN 96*					

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3406E - 18	355 @ 1800	193 (117.1)	1170483	1307126	---	---
3406E - 19	355 @ 1800	193 (117.1)	1170483	1307130	---	---
3406E - 20	355 @ 1800	193 (117.1)	1170483	1307122	---	---
3406E - 21	*355 @ 1800*	*193 (117.1)*	*1170483*	*1343001*	---	---
3406E - *22*	330 @ 1800	182 (110.4)	1183847	1299307	---	---
3406E - *23*	310 @ 1800	174 (105.2)	1183847	1299298	---	---
3406E - *24*	310 @ 1800	174 (105.2)	1183847	1299301	---	---
3406E - *25*	310 @ 1800	174 (105.2)	1183847	1299304	---	---

ISSUE DATE	08 DEC 95							
REVISION NUMBER	1	*2*						
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3406E - 1	550 @ 1800	292 (176.7)	1171149	1307115	---	---
3406E - 2	550 @ 1800	292 (176.7)	1171149	1307118	---	---
3406E - 3	500 @ 1800	270 (163.4)	1171149	1164360	---	---
3406E - 4	500 @ 1800	265 (160.5)	1171149	1303205	---	---
3406E - 5	500 @ 1800	262 (158.5)	1171149	1303202	---	---
3406E - 6	*475 @ 1800*	*263 (159.1)*	*1171149*	*1356048*	---	---
3406E - 7	*475 @ 1800*	*260 (157.0)*	*1171149*	*1356045*	---	---
3406E - *8*	475 @ 1800	253 (153.4)	1171149	1286577	---	---
3406E - *9*	475 @ 1800	250 (151.3)	1171149	1286573	---	---
3406E - 10	*455 @ 1800*	*256 (154.9)*	*1171149*	*1349888*	---	---
3406E - 11	*455 @ 1800*	*252 (152.8)*	*1171149*	*1349885*	---	---
3406E - *12*	455 @ 1800	246 (149.2)	1170484	1303197	---	---
3406E - *13*	455 @ 1800	243 (147.1)	1170484	1303194	---	---
3406E - *14*	435 @ 1800	241 (145.8)	1170484	1324396	---	---
3406E - *15*	435 @ 1800	241 (145.8)	1170484	1285600	---	---
3406E - *16*	435 @ 1800	236 (142.7)	1170484	1303172	---	---
3406E - *17*	435 @ 1800	232 (140.6)	1170484	1303169	---	---
3406E - *18*	410 @ 1800	225 (136.4)	1170483	1307147	---	---

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3406E - *19*	410 @ 1800	222 (134.2)	1170483	1307142	---	---
3406E - *20*	375 @ 1800	206 (124.8)	1170483	1307134	---	---
3406E - *21*	375 @ 1800	206 (124.8)	1170483	1307138	---	---
3406E - *22*	375 @ 1800	194 (117.7)	1170483	1297749	---	---
3406E - 23	*375 @ 1800*	*194 (117.7)*	*1170483*	*1352731*	---	---
3406E - *24*	355 @ 1800	193 (117.1)	1170483	1307126	---	---
3406E - *25*	355 @ 1800	193 (117.1)	1170483	1307130	---	---
3406E - *26*	355 @ 1800	193 (117.1)	1170483	1307122	---	---
3406E - *27*	355 @ 1800	193 (117.1)	1170483	1343001	---	---
3406E - *28*	330 @ 1800	182 (110.4)	1183847	1299307	---	---
3406E - *29*	310 @ 1800	174 (105.2)	1183847	1299298	---	---
3406E - *30*	310 @ 1800	174 (105.2)	1183847	1299301	---	---
3406E - *31*	310 @ 1800	174 (105.2)	1183847	1299304	---	---

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3406E - *19*	355 @ 1800	193 (117.1)	1170483	1307126	---	---
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3406E - *23*	330 @ 1800	182 (110.4)	1183847	1299307	---	---
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ISSUE DATE	08 DEC 95							
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3406E - 5	500 @ 1800	262 (158.5)	1171149	1303202	---	---
3406E - 6	475 @ 1800	253 (153.4)	1171149	1286577	---	---
3406E - 7	475 @ 1800	250 (151.3)	1171149	1286573	---	---
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3406E - 9	455 @ 1800	243 (147.1)	1170484	1303194	---	---
3406E - 10	435 @ 1800	241 (145.8)	1170484	1324396	---	---
3406E - 11	*435 @ 1800*	*241 (145.8)*	*1170484*	*1285600*	---	---
3406E - *12*	435 @ 1800	236 (142.7)	1170484	1303172	---	---
3406E - *13*	435 @ 1800	232 (140.6)	1170484	1303169	---	---
3406E - *14*	410 @ 1800	225 (136.4)	1170483	1307147	---	---
3406E - *15*	410 @ 1800	222 (134.2)	1170483	1307142	---	---
3406E - *16*	375 @ 1800	206 (124.8)	1170483	1307134	---	---
3406E - *17*	375 @ 1800	206 (124.8)	1170483	1307138	---	---
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ISSUE DATE	08 SEPT 95							
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REVISION DATE	09 NOV 95	08 DEC 95	22 JAN 96	*07 FEB 96*				

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3406E - *6*	475 @ 1800	*253 (153.4)*	1171149	*1286577*	---	---
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3406E - 8	455 @ 1800	*246 (149.2)*	1170484	1303197	---	---
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3406E - 10	435 @ 1800	*236 (142.7)*	1170484	1303172	---	---
3406E - 11	435 @ 1800	*232 (140.6)*	1170484	1303169	---	---
3406E - 12	410 @ 1800	225 (136.4)	1170483	*1307147*	---	---
3406E - 13	410 @ 1800	222 (134.2)	1170483	*1307142*	---	---
3406E - 14	375 @ 1800	206 (124.8)	1170483	1307134	---	---
3406E - 15	375 @ 1800	206 (124.8)	1170483	1307138	---	---
3406E - 16	*375 @ 8100*	*194 (117.7)*	*1170483*	*1297749*	---	---

ISSUE DATE	08 SEPT 95							
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Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3406E - 17	355 @ 1800	193 (117.1)	1170483	1307126	---	---
3406E - 18	355 @ 1800	193 (117.1)	1170483	1307130	---	---
3406E - 19	355 @ 1800	193 (117.1)	1170483	1307122	---	---
3406E - 20	330 @ 1800	182 (110.4)	1183847	1299307	---	---
3406E - 21	310 @ 1800	174 (105.2)	1183847	1299298	---	---
3406E - 22	310 @ 1800	174 (105.2)	1183847	1299301	---	---
3406E - 23	310 @ 1800	174 (105.2)	1183847	1299304	---	---

ISSUE DATE	08 DEC 95							
REVISION NUMBER								
REVISION DATE								

Rung chg 12-19-95

E.O. # A-13-96

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP893EZDARK

Displacement: 14.6 / Liters 893 / Cubic Inches

Maximum Rated Power: 500 HP @ 1800 RPM Engine Configuration: I6

Ignition: Compression X Compression with Glow Plug ___ Spark ___

Fuel Type (s): Dedicated ___ Flex-Fuel ___ Dual-Fuel ___ Diesel X M100 ___ M85 ___

CNG ___ LNG ___ LPG ___ Other (specify) ___

Diesel Cert Fuel: 13CCR 2282 ___ 40 CFR 86.1313-90 ___ 40 CFR 86.1313-94 X

Primary Intended Service Class: LHD ___ MHD ___ HHD X Urban Bus ___

Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3406E - 1	550 @ 1800	292 (176.7)	1171149	1307115	---	---
3406E - 2	550 @ 1800	292 (176.7)	1171149	1307118		
3406E - 3	*500 @ 1800*	*270 (163.4)*	*1171149*	*1164360*		
3406E - *4*	500 @ 1800	265 (160.5)	1171149	1303205		
3406E - *5*	500 @ 1800	262 (158.5)	1171149	1303202		
3406E - *6*	475 @ 1800	251 (151.9)	1171149	1286579		
3406E - *7*	475 @ 1800	246 (149.7)	1171149	1286574		
3406E - *8*	455 @ 1800	241 (145.9)	1170484	1303197		
3406E - *9*	455 @ 1800	237 (143.8)	1170484	1303194		
3406E - *10*	435 @ 1800	230 (139.4)	1170484	1303172		
3406E - *11*	435 @ 1800	227 (137.3)	1170484	1303169		
3406E - *12*	410 @ 1800	225 (136.4)	1170483	1286577		
3406E - *13*	410 @ 1800	222 (134.2)	1170483	1286573		
3406E - *14*	375 @ 1800	206 (124.8)	1170483	1307134		
3406E - *15*	375 @ 1800	206 (124.8)	1170483	1307138		
3406E - *16*	355 @ 1800	193 (117.1)	1170483	1307126		
3406E - *17*	355 @ 1800	193 (117.1)	1170483	1307130		
3406E - *18*	355 @ 1800	193 (117.1)	1170483	1307122		
3406E - *19*	330 @ 1800	182 (110.4)	1183847	1299307		
3406E - *20*	310 @ 1800	174 (105.2)	1183847	1299298		
3406E - *21*	310 @ 1800	174 (105.2)	1183847	1299301		
3406E - *22*	310 @ 1800	174 (105.2)	1183847	1299304		

ISSUE DATE	08 SEPT 95							
REVISION NUMBER	*1*							
REVISION DATE	*09 NOV 95*							

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP893EZDARK

Displacement: 14.6 / Liters 893 / Cubic Inches

Maximum Rated Power: 500 HP @ 1800 RPM Engine Configuration: I6

Ignition: Compression X Compression with Glow Plug ____ Spark ____

Fuel Type (s): Dedicated ____ Flex-Fuel ____ Dual-Fuel ____ Diesel X M100 ____ M85 ____

CNG ____ LNG ____ LPG ____ Other (specify) ____

Diesel Cert Fuel: 13CCR 2282 ____ 40 CFR 86.1313-90 ____ 40 CFR 86.1313-94 X

Primary Intended Service Class: LHD ____ MHD ____ HHD X Urban Bus ____

Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3406E - 19	410 @ 1800	222 (134.2)	1170483	*1307141*	---	---
3406E - 20	375 @ 1800	206 (124.8)	1170483	*1307137*	---	---
3406E - 21	375 @ 1800	206 (124.8)	1170483	*1307133*	---	---
3406E - 22	375 @ 1800	194 (117.7)	1170483	*1352730*	---	---
3406E - 23	375 @ 1800	194 (117.7)	1170483	*1297748*	---	---
3406E - 24	355 @ 1800	193 (117.1)	1170483	*1343000*	---	---
3406E - 25	355 @ 1800	193 (117.1)	1170483	*1347129*	---	---
3406E - 26	355 @ 1800	193 (117.1)	1170483	*1347125*	---	---
3406E - 27	355 @ 1800	193 (117.1)	1170483	*1347121*	---	---
3406E - 28	330 @ 1800	182 (110.4)	1183847	*1164346*	---	---
3406E - 29	310 @ 1800	174 (105.2)	1183847	*1164355*	---	---
3406E - 30	310 @ 1800	174 (105.2)	1183847	*1164350*	---	---
3406E - 31	310 @ 1800	174 (105.2)	1183847	*1164342*	---	---

ISSUE DATE	08 DEC 95							
REVISION NUMBER	1	2	3	4	5	*6*		
REVISION DATE	22 JAN 96	23 JAN 96	07 FEB 96	02 APR 96	23 MAY 96	*02 AUG 96*		

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP893EZDARK

Displacement: 14.6 / Liters 893 / Cubic Inches

Maximum Rated Power: 500 HP @ 1800 RPM Engine Configuration: I6

Ignition: Compression X Compression with Glow Plug ___ Spark ___

Fuel Type (s): Dedicated ___ Flex-Fuel ___ Dual-Fuel ___ Diesel X M100 ___ M85 ___

CNG ___ LNG ___ LPG ___ Other (specify) ___

Diesel Cert Fuel: 13CCR 2282 ___ 40 CFR 86.1313-90 ___ 40 CFR 86.1313-94 X

Primary Intended Service Class: LHD ___ MHD ___ HHD X Urban Bus ___

Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3406E - 1	550 @ 1800	292 (176.7)	1171149	*1268384*	---	---
3406E - 2	550 @ 1800	292 (176.7)	1171149	*1269516*	---	---
3406E - 3	500 @ 1800	270 (163.4)	1171149	*1164359*	---	---
3406E - 4	500 @ 1800	265 (160.5)	1171149	*1303204*	---	---
3406E - 5	500 @ 1800	262 (158.5)	1171149	*1303201*	---	---
3406E - 6	475 @ 1800	263 (159.1)	1171149	*1356047*	---	---
3406E - 7	475 @ 1800	260 (157.0)	1171149	*1356041*	---	---
3406E - 8	475 @ 1800	253 (153.4)	1171149	*1286576*	---	---
3406E - 9	475 @ 1800	250 (151.3)	1171149	*1286572*	---	---
3406E - 10	455 @ 1800	256 (154.9)	1171149	*1349887*	---	---
3406E - 11	455 @ 1800	252 (152.8)	1171149	*1349884*	---	---
3406E - 12	455 @ 1800	246 (149.2)	1170484	*1303196*	---	---
3406E - 13	455 @ 1800	243 (147.1)	1170484	*1303193*	---	---
3406E - 14	435 @ 1800	241 (145.8)	1170484	*1324395*	---	---
3406E - 15	435 @ 1800	241 (145.8)	1170484	*1285599*	---	---
3406E - 16	435 @ 1800	236 (142.7)	1170484	*1303171*	---	---
3406E - 17	435 @ 1800	232 (140.6)	1170484	*1303167*	---	---
3406E - 18	410 @ 1800	225 (136.4)	1170483	*1307146*	---	---

ISSUE DATE	08 SEPT 95							
REVISION NUMBER	1	2	3	4	5	*6*		
REVISION DATE	09 NOV 95	08 DEC 95	22 JAN 96	07 FEB 96	02 APR 96	*02 AUG 96*		

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP893EZDARK

Displacement: 14.6 / Liters: 893 / Cubic Inches

Maximum Rated Power: 550 HP @ 1800 RPM Engine Configuration: I6

Ignition: Compression X Compression with Glow Plug ___ Spark ___

Fuel Type (s): Dedicated ___ Flex-Fuel ___ Dual-Fuel ___ Diesel X M100 ___ M85 ___

CNG ___ LNG ___ LPG ___ Other (specify) ___

Diesel Cert Fuel: 13CCR 2282 ___ 40 CFR 86.1313-90 ___ 40 CFR 86.1313-94 X

Primary Intended Service Class: LHD ___ MHD ___ HHD X Urban Bus ___

Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3406E - 1	**550 @ 1800**	**295 (178.4)**	**1189035**	**1389434**	—	—
3406E - 2	**550 @ 1800**	**295 (178.4)**	**1189035**	**1389637**	—	—
3406E - 3	550 @ 1800	292 (176.7)	1171149	1268384	---	---
3406E - 4	550 @ 1800	292 (176.7)	1171149	1269516	---	---
3406E - 5	**500 @ 1800**	**275 (166.5)**	**1189035**	**1415943**	—	—
3406E - 6	**500 @ 1800**	**272 (164.4)**	**1189035**	**1415940**	—	—
3406E - 7	500 @ 1800	270 (163.4)	1171149	1164359	---	---
3406E - 8	500 @ 1800	265 (160.5)	1171149	1303204	---	---
3406E - 9	500 @ 1800	262 (158.5)	1171149	1303201	---	---
3406E - 10	475 @ 1800	263 (159.1)	1171149	1356047	---	---
3406E - 11	**475 @ 1800**	**263 (159.1)**	**1189035**	**1415943**	—	—
3406E - 12	**475 @ 1800**	**259 (157.0)**	**1189035**	**1415940**	—	—
3406E - 13	475 @ 1800	260 (157.0)	1171149	1356041	---	---
3406E - 14	475 @ 1800	253 (153.4)	1171149	1286576	---	---
3406E - 15	475 @ 1800	250 (151.3)	1171149	1286572	---	---
3406E - 16	455 @ 1800	256 (154.9)	1171149	1349887	---	---
3406E - 17	455 @ 1800	252 (152.8)	1171149	1349884	---	---
3406E - 18	**455 @ 1800**	**250 (151.3)**	**1189030**	**1343939**	—	—

ISSUE DATE	08 SEPT 95							
REVISION NUMBER	1	2	3	4	5	6	7	
REVISION DATE	09 NOV 95	08 DEC 95	22 JAN 96	07 FEB 96	02 APR 96	02 AUG 96	11OCT96	

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Caterpillar Inc. Engine Family: TCP893EZDARK

Displacement: 14.6 / Liters: 893 / Cubic Inches

Maximum Rated Power: 550 HP @ 1800 RPM Engine Configuration: I6

Ignition: Compression X Compression with Glow Plug ___ Spark ___

Fuel Type (s): Dedicated ___ Flex-Fuel ___ Dual-Fuel ___ Diesel X M100 ___ M85 ___

CNG ___ LNG ___ LPG ___ Other (specify) ___

Diesel Cert Fuel: 13CCR 2282 ___ 40 CFR 86.1313-90 ___ 40 CFR 86.1313-94 X

Primary Intended Service Class: LHD ___ MHD ___ HHD X Urban Bus ___

Exhaust ECS (incl. MFI, TC, CAC) CAC, ECM, TC

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3406E - 19	455 @ 1800	246 (149.2)	1170484	1303196	---	---
3406E - 20	**455 @ 1800**	**246 (149.1)**	**1189030**	**1334016**	---	---
3406E - 21	455 @ 1800	243 (147.1)	1170484	1303193	---	---
3406E - 22	435 @ 1800	241 (145.8)	1170484	1324395	---	---
3406E - 23	435 @ 1800	241 (145.8)	1170484	1285599	---	---
3406E - 24	435 @ 1800	236 (142.7)	1170484	1303171	---	---
3406E - 25	435 @ 1800	232 (140.6)	1170484	1303167	---	---
3406E - 26	410 @ 1800	225 (136.4)	1170483	1307146	---	---
3406E - 27	410 @ 1800	222 (134.2)	1170483	1307141	---	---
3406E - 28	375 @ 1800	206 (124.8)	1170483	1307137	---	---
3406E - 29	375 @ 1800	206 (124.8)	1170483	1307133	---	---
3406E - 30	375 @ 1800	194 (117.7)	1170483	1352730	---	---
3406E - 31	375 @ 1800	194 (117.7)	1170483	1297748	---	---
3406E - 32	355 @ 1800	193 (117.1)	1170483	1343000	---	---
3406E - 33	355 @ 1800	193 (117.1)	1170483	1347129	---	---
3406E - 34	355 @ 1800	193 (117.1)	1170483	1347125	---	---
3406E - 35	355 @ 1800	193 (117.1)	1170483	1347121	---	---
3406E - 36	330 @ 1800	182 (110.4)	1183847	1164346	---	---
3406E - 37	310 @ 1800	174 (105.2)	1183847	1164355	---	---
3406E - 38	310 @ 1800	174 (105.2)	1183847	1164350	---	---
3406E - 39	310 @ 1800	174 (105.2)	1183847	1164342	---	---

ISSUE DATE	08 DEC 95							
REVISION NUMBER	1	2	3	4	5	6	7	
REVISION DATE	22 JAN 96	23 JAN 96	07 FEB 96	02 APR 96	23 MAY 96	02 AUG 96	11OCT96	