



Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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 compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2001	1DZXL15.9002	11.91, 15.87	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter			Pump, Compressor, Generator Set	
<b>ENGINE MODELS (rated power in kilowatts, kw)</b>	See Attachment (4 pages)			

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225≤KW<450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	--	--	5.4	1.5	0.14	18	6	27
450≤KW≤560	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.2	5.3	--	1.5	0.14	18	6	27

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

Executed at El Monte, California on this 4<sup>th</sup> day of June 2001.

R. B. Summerfield, Chief  
Mobile Source Operations Division

Attachment

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List of emission related components

U-R-13-31

DZXL15.9002

Engine type	Displacement	Engine code	Nominal power ±5%	Nominal power ±5%	Nominal speed ±50rpm	Mean effective pressure at nominal power	Injection rate at nominal power ±6mm <sup>3</sup> /stroke	Peak torque ±5%	Speed at nom. torque ±100rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±6mm <sup>3</sup> /stroke	Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (+300 rpm, dep. on engine applic.)	High idle (+300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Injection timing ±0.5	Speed governor	Speed governor, optionally	Smoke limiter, part of speed governor - 10mm <sup>3</sup> /stroke-rpm	Turbocharger
	cm <sup>3</sup>		HP	kW	rpm	bar	mm <sup>3</sup> /stroke	Nm	rpm	bar	mm <sup>3</sup> /stroke	Nm	bar	mm <sup>3</sup> /stroke	rpm	rpm	BOSCH TYPE	BOSCH TYPE	*btdc	BOSCH TYPE	GAC / EMR	mm <sup>3</sup> /stroke-rpm	Designation
BF8M1015CP	15874	C440/2	590	440	2150	15.47	230	2500	1300	19.80	267	1759	13.93				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PA1437K	RE30	170-800	s300-066w
BF8M1015CP	15874	C470/1	630	470	2100	16.92	258	2500	1300	19.80	267	1801	14.26				PE8P120A320LS7943 PE8P120A320LS7944	DLA168P1006	16	RQV300-1050PA1437K	RE30	170-800	s300-066w
BF8M1015CP	15874	C440	590	440	2100	15.84	240	2500	1300	19.80	267	1801	14.26				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PA1437K	RE30	170-800	s300-066w
BF8M1015CP	15874	C419	561	419	2100	15.08	223	2382	1300	18.86	246	1715	13.58				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PA1437K	RE30	170-800	s300-066w
BF8M1015CP	15874	C400/5	536	400	2100	14.40	212	2274	1300	18.01	237	1637	12.96				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PA1437K	RE30	170-800	s300-066w
BF8M1015CP	15874	C383	513	383	2100	13.79	200	2177	1300	17.24	228	1567	12.41				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PA1437K	RE30	170-800	s300-066w
BF8M1015CP	15874	C400/6	536	400	2100	14.40	216	2455	1300	19.44	260	1637	12.96				PE8P120A320LVB401881099 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PAV-KB420033745	RE30	170-800	s300-066w
BF8M1015CP	15874	C381/3	511	381	2100	13.72	204	2338	1300	18.51	246	1559	12.35				PE8P120A320LVB401881099 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PAV-KB420033745	RE30	170-800	s300-066w
BF8M1015CP	15874	C364/4	488	364	2100	13.10	194	2232	1300	17.67	236	1490	11.80				PE8P120A320LVB401881099 PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PAV-KB420033745	RE30	170-800	s300-066w
BF8M1015CP	15874	C348/4	466	348	2100	12.53	184	2137	1300	16.92	227	1424	11.28				PE8P120A320LS7944	DLA166P1005	16	RQV300-1050PAV-KB420033745	RE30	170-800	s300-066w
BF8M1015CP	15874	C470	630	470	1900	18.70	275	2670	1300	21.14	296	2126	16.83				PE8P120A320LS7944	DLA168P751	15		RE30	170-800	s300-066w
BF8M1015CP	15874	C440/1	590	440	1900	17.51	257	2650	1200	20.98	284	1990	15.76				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	15	RQV300-950PAV-KB420033831	RE30	170-800	s300-065u
BF8M1015CP	15874	C419/1	561	419	1900	16.67	242	2527	1200	20.01	270	1895	15.01				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	15	RQV300-950PAV-KB420033831	RE30	170-800	s300-065u
BF8M1015CP	15874	C400/7	536	400	1900	15.91	230	2412	1200	19.10	255	1809	14.32				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	15	RQV300-950PAV-KB420033831	RE30	170-800	s300-065u
BF8M1015CP	15874	C383/1	513	383	1900	15.24	215	2310	1200	18.29	245	1732	13.72				PE8P120A320LS7943 PE8P120A320LS7944	DLA166P1005	15	RQV300-950PAV-KB420033831	RE30	170-800	s300-065u
BF8M1015CP	15874	C418	560	418	1800	17.55	251	2595	1200	20.55	277	1996	15.81				PE8P120A320LS7944	DLA166P1005	15		RE30	170-800	s300-065u
BF8M1015CP	15874	C400/8	536	400	1800	16.80	237	2482	1200	19.65	264	1910	15.12				PE8P120A320LS7944	DLA166P1005	15		RE30	170-800	s300-065u
BF8M1015CP	15874	C382	512	382	1800	16.04	224	2371	1200	18.78	250	1824	14.44				PE8P120A320LS7944	DLA166P1005	15		RE30	170-800	s300-065u
BF8M1015CP	15874	C364/3	488	364	1800	15.29	212	2259	1200	17.89	239	1738	13.76				PE8P120A320LS7944	DLA166P1005	15		RE30	170-800	s300-065u
BF8M1015CP	15874	D517	693	517	1800	21.71	300	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE8P120A320LS7944	DLA168P1006	13.5		RE30	n.a.	s300-066w
BF8M1015CP	15874	D490	657	490	1500	24.69	352	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE8P120A320LV-B401881131	DLA158P1116	12.5		RE30	n.a.	s300-065u
BF8M1015CP	15874	D473	634	473	1800	19.86	275	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE8P120A320LS7944	DLA168P1006	13.5		RE30	n.a.	s300-066w
BF8M1015CP	15874	D426	571	426	1800	17.89	248	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE8P120A320LS7944	DLA168P1006	13.5		RE30	n.a.	s300-066w
BF8M1015C	15874	C400	536	400	2100	14.40	220	2640	1200	20.91	283	2000	15.84				PE8P120A320LS7906 PE8P120A320LS7951	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s2b-160m
BF8M1015C	15874	C400/3	536	400	2100	14.40	218	2365	1200	18.73	248	2100	16.63				PE8P120A320LS7906 PE8P120A320LS7951	DLA168P426	14	RQV300-1050PA1330K	RE30	165-800	s300-065u
BF8M1015C	15874	C385	516	385	2100	13.86	208	2539	1200	20.11	272	2000	15.84				PE8P120A320LS7906 PE8P120A320LS7951	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s2b-160m
BF8M1015C	15874	C381	511	381	2100	13.72	206	2512	1200	19.89	268	2000	15.84				PE8P120A320LS7906 PE8P120A320LS7951	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s2b-160m
BF8M1015C	15874	C370/1	496	370	2100	13.32	197	1900	1200	15.05	197	2000	15.84				PE8P120A320LS7906 PE8P120A320LS7951	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s2b-160m
BF8M1015C	15874	C370/2	496	370	2100	13.32	202	2187	1200	17.32	200	2000	15.84				PE8P120A320LS7906 PE8P120A320LS7951	DLA168P426	14	RQV300-1050PA1330K	RE30	165-800	s2b-160m
BF8M1015C	15874	C364	488	364	2100	13.10	193	2400	1200	19.00	256	2000	15.84				PE8P120A320LS7906 PE8P120A320LS7951	DLA168P426	15	RQV300-1050PA1330K	RE30	165-800	s2b-160m

List of emissions related components

Engine type	Displacement	Engine code	Nominal power ±5%	Nominal power ±5%	Nominal speed ±50rpm	Mean effective pressure at nominal power	Injection rate at nominal power ±6mm³	Peak torque ±5%	Speed at nom. torque ± 100rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±6mm³	Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (*300 rpm, dep. on engine applic.)	High idle (*300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Injection timing ±0.5	Speed governor	Speed governor, optionally	Smoke limiter, part of speed governor - 10mm³	Turbocharger
	cm³		HP	kW	rpm	bar	mm³/stroke	Nm	rpm	bar	mm³/stroke	Nm	bar	mm³/stroke	rpm	rpm			*bt/dc	BOSCH TYPE	GAC / EMR	mm³/stroke -rpm	Designation
BF8M1015C	15874	C348	466	348	2100	12.53	183	2295	1200	18.17	243	2000	15.84		550	2180	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-1050PA1330K	RE30	165-800	s2b-160m
BF8M1015C	15874	C400/1	536	400	2000	15.12	233	2674	1200	21.17	287	2000	15.84		550	2080	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-1000PAVB420033623	RE30	165-800	s2b-160m
BF8M1015C	15874	C381/1	511	381	2000	14.40	219	2547	1200	20.17	273	2000	15.84		550	2080	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-1000PAVB420033623	RE30	165-800	s2b-160m
BF8M1015C	15874	C370	496	370	2000	13.99	211	2473	1200	19.58	265	2000	15.84		550	2080	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-1000PAVB420033623	RE30	165-800	s2b-160m
BF8M1015C	15874	C364/1	488	364	2000	13.76	206	2433	1200	19.27	259	2000	15.84		550	2080	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-1000PAVB420033623	RE30	165-800	s2b-160m
BF8M1015C	15874	C348/1	466	348	2000	13.15	194	2326	1200	18.42	247	2000	15.84		550	2080	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-1000PAVB420033623	RE30	165-800	s2b-160m
BF8M1015C	15874	C400/2	536	400	1900	15.91	220	2714	1200	21.49	279	2000	15.84		550	1970	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-950PAVB420033599	RE30	165-800	s2b-160l
BF8M1015C	15874	C400/4	536	400	1900	15.91	220	2613	1200	20.69	275	2000	15.84		550	1970	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	12+1	RQV300-950PAVKB420033642	RE30	165-800	s300-0
BF8M1015C	15874	C381/2	511	381	1900	15.16	208	2585	1200	20.47	264	2000	15.84		550	1970	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-950PAVB420033599	RE30	165-800	s2b-160l
BF8M1015C	15874	C364/2	488	364	1900	14.48	197	2470	1200	19.56	251	2000	15.84		550	1970	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-950PAVB420033599	RE30	165-800	s2b-160l
BF8M1015C	15874	C348/2	466	348	1900	13.85	186	2361	1200	18.70	240	2000	15.84		550	1970	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-950PAVB420033599	RE30	165-800	s2b-160l
BF8M1015C	15874	C348/3	466	348	1900	13.85	186	2200	1200	17.42	223	2000	15.84		550	1970	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-950PAVB420033599	RE30	165-800	s2b-160l
BF8M1015C	15874	C380	509	380	1800	15.96	212	2540	1200	20.11	258	2000	15.84		550	1870	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-950PAVB420033599	RE30	165-800	s2b-160l
BF8M1015C	15874	C362	485	362	1800	15.20	201	2420	1200	19.16	247	2000	15.84		550	1870	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-900PAVB420032930	RE30	165-800	s2b-160l
BF8M1015C	15874	C345	462	345	1800	14.49	191	2306	1200	18.26	234	2000	15.84		550	1870	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-900PAVB420032930	RE30	165-800	s2b-160l
BF8M1015C	15874	C330	442	330	1800	13.86	180	2206	1200	17.47	222	2000	15.84		550	1870	PE8P120A320LS7906 PE8P120A320LS7951	DLLA168P426	15	RQV300-900PAVB420032930	RE30	165-800	s2b-160l
BF8M1015C	15874	D454	608	454	1800	19.07	252	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE8P120A320LS7906-1 PE8P120A320LS7951	DLLA168P751	15	RQV900PAVB420033637	RE30	n.a.	s2b-160m
BF8M1015C	15874	D413	553	413	1800	17.34	230	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE8P120A320LS7906-1 PE8P120A320LS7951	DLLA168P751	15	RQV900PAVB420033637	RE30	n.a.	s2b-160m
BF8M1015C	15874	D362	485	362	1800	15.20	201	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE8P120A320LS7906-1 PE8P120A320LS7951	DLLA168P426	15	RQV900PAVB420033637	RE30	n.a.	s2b-160m
BF6M1015CP	11906	C330/2	442	330	2100	15.84	237	1876	1300	19.81	263	1351	14.26		550	2180	PE6P120A320LS7941 PE6P120A320LS7942	DLLA166P1005	16	RQV300-1050PAVKB420033818	RE30	165-800	s400-054o
BF6M1015CP	11906	C314/1	421	314	2100	15.07	222	1785	1300	18.85	248	1285	13.57		550	2180	PE6P120A320LS7941 PE6P120A320LS7942	DLLA166P1005	16	RQV300-1050PAVKB420033818	RE30	165-800	s400-054o
BF6M1015CP	11906	C300/5	402	300	2100	14.40	212	1705	1300	18.00	234	1228	12.96		550	2180	PE6P120A320LS7941 PE6P120A320LS7942	DLLA166P1005	16	RQV300-1050PAVKB420033818	RE30	165-800	s400-054o
BF6M1015CP	11906	C287	385	287	2100	13.77	202	1631	1300	17.22	219	1175	12.41		550	2180	PE6P120A320LS7941 PE6P120A320LS7942	DLLA166P1005	16	RQV300-1050PAVKB420033818	RE30	165-800	s400-054o
BF6M1015CP	11906	C300/6	402	300	2100	14.40	214	1841	1300	19.44	256	1228	12.96		550	2180	PE6P120A320LS7941 PE6P120A320LS7942	DLLA166P1005	16	RQV300-1050PAVKB420033832	RE30	165-800	s400-054o
BF6M1015CP	11906	C286/4	383	286	2100	13.73	203	1752	1300	18.50	242	1170	12.35		550	2180	PE6P120A320LS7941 PE6P120A320LS7942	DLLA166P1005	16	RQV300-1050PAVKB420033832	RE30	165-800	s400-054o
BF6M1015CP	11906	C273/5	366	273	2100	13.10	192	1674	1300	17.67	232	1117	11.79		550	2180	PE6P120A320LS7941 PE6P120A320LS7942	DLLA166P1005	16	RQV300-1050PAVKB420033832	RE30	165-800	s400-054o

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List of emissions related components

ED# U-1 B-31  
DZXL15.9002

Engine type	Displacement	Engine code	Nominal power ±5%		Nominal speed ±50rpm	Mean effective pressure at nominal power	Injection rate at nominal power ±6mm <sup>3</sup>		Speed at nom. torque ± 100rpm	Mean effective pressure at peak torque		Injection rate at peak torque ±6mm <sup>3</sup>		Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (+300 rpm, dep. on engine applic.)	High idle (+300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Injection timing ±0.5	Speed governor	Speed governor, optionally	Smoke limiter, part of speed governor - 10mm <sup>3</sup>	Turbocharger
			HP	kW			mm <sup>3</sup> /stroke	Nm		rpm	bar	mm <sup>3</sup> /stroke	Nm												
	cm <sup>3</sup>				rpm	bar			rpm					Nm	bar	mm <sup>3</sup> /stroke	rpm	rpm	BOSCH TYPE	BOSCH TYPE	*btdc	BOSCH TYPE	GAC / EMR	mm <sup>3</sup> /stroke-rpm	Designation
BF6M1015CP	11906	C261/4	350	261	2100	12.53	181	1601	1300	16.90	221	1068	11.28	550	2180				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	16	RQV300-1050PAVKB420033832	RE30	165-800	s400-054o
BF6M1015CP	11906	C330/3	442	330	1900	17.51	264	2106	1200	22.23	293	1493	15.76	550	1970				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	14	RQV300-1050PAVKB420033828	RE30	165-800	S400G/91H42CPALM/1.1CJ1
BF6M1015CP	11906	C314/2	421	314	1900	16.66	249	2004	1200	21.16	281	1420	14.99	550	1970				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	14	RQV300-1050PAVKB420033828	RE30	165-800	S400G/91H42CPALM/1.1CJ1
BF6M1015CP	11906	C330/4	442	330	1900	17.51	252	1990	1200	21.01	277	1493	15.76	550	1970				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15	RQV300-950PA1430K	RE30	165-800	s400-053o
BF6M1015CP	11906	C314/3	421	314	1900	16.66	233	1894	1200	19.95	263	1420	14.99	550	1970				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15	RQV300-950PA1430K	RE30	165-800	s400-053o
BF6M1015CP	11906	C300/7	402	300	1900	15.91	226	1809	1200	19.10	251	1357	14.33	550	1970				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15	RQV300-950PA1430K	RE30	165-800	s400-053o
BF6M1015CP	11906	C287/1	385	287	1900	15.22	214	1731	1200	18.28	241	1298	13.70	550	1970				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15	RQV300-950PA1430K	RE30	165-800	s400-053o
BF6M1015CP	11906	C313	419	313	1800	17.53	244	1943	1200	20.51	271	1494	15.77	550	1870				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15		RE30	165-800	s400-053o
BF6M1015CP	11906	C300/8	402	300	1800	16.80	234	1862	1200	19.66	259	1432	15.12	550	1870				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15		RE30	165-800	s400-053o
BF6M1015CP	11906	C285/1	382	285	1800	15.96	222	1769	1200	18.68	243	1361	14.37	550	1870				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15		RE30	165-800	s400-053o
BF6M1015CP	11906	C272	364	272	1800	15.23	209	1688	1200	17.82	233	1299	13.71	550	1870				PE6P120A320LS7941 PE6P120A320LS7942	DLA166P1005	15		RE30	165-800	s400-053o
BF6M1015CP	11906	D384	515	384	1800	21.50	295	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				PE6P120A320LS7942	DLA168P1006	14.5		RE30	165-800	s400-054x
BF6M1015CP	11906	D351	470	351	1800	19.65	270	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				PE6P120A320LS7942	DLA168P1006	14.5		RE30	165-800	s400-054x
BF6M1015CP	11906	D320	429	320	1800	17.92	245	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				PE6P120A320LS7942	DLA168P1006	14.5		RE30	165-800	s400-054x
BF6M1015C	11906	C261/5	350	261	2300	11.44	181	1517	1200	16.02	203	1380	14.57	550	2400				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1050PAVKB420033595	RE30	165-800	s3b-152h
BF6M1015C	11906	C240	322	240	2300	10.52	166	1395	1200	14.73	186	1380	14.57	550	2400				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1050PAVKB420033595	RE30	165-800	s3b-152h
BF6M1015C	11906	C300	402	300	2100	14.40	207	1978	1200	20.88	274	1380	14.57	550	2180				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s3b-152h
BF6M1015C	11906	C300/3	402	300	2100	14.40	222	1773	1200	18.72	249	1380	14.57	550	2180				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	13+1	RQV-K300-1050PA1328K	RE30	165-800	s3b-152h
BF6M1015C	11906	C286	383	286	2100	13.73	200	1886	1200	19.91	261	1380	14.57	550	2180				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s3b-152h
BF6M1015C	11906	C273	366	273	2100	13.10	194	1800	1200	19.00	248	1380	14.57	550	2180				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s3b-152h
BF6M1015C	11906	C273/3	366	273	2100	13.10	203	1617	1200	17.07	227	1380	14.57	550	2180				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	13+1	RQV-K300-1050PA1328K	RE30	165-800	s3b-152h
BF6M1015C	11906	C261	350	261	2100	12.53	188	1721	1200	18.17	238	1380	14.57	550	2180				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1050PA1325	RE30	165-800	s3b-152h
BF6M1015C	11906	C280	375	280	2050	13.77	182	1872	1200	19.76	264	1380	14.57	550	2140				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15		RE30	165-800	s3b-152h
BF6M1015C	11906	C261/1	350	261	2050	12.83	177	1748	1200	18.45	243	1380	14.57	550	2140				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15		RE30	165-800	s3b-152h
BF6M1015C	11906	C242	324	242	2050	11.90	172	1618	1200	17.08	226	1380	14.57	550	2140				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15		RE30	165-800	s3b-152h
BF6M1015C	11906	C300/1	402	300	2000	15.12	211	2006	1200	21.16	277	1380	14.57	550	2080				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1000PAVB4200331623	RE30	165-800	s3b-152h
BF6M1015C	11906	C286/1	383	286	2000	14.41	203	1912	1200	20.19	265	1380	14.57	550	2080				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1000PAVB4200331623	RE30	165-800	s3b-152h
BF6M1015C	11906	C273/1	366	273	2000	13.76	196	1825	1200	19.27	254	1380	14.57	550	2080				PE6P120A320LS7904 PE6P120A320LS7952	DLA168P426	15	RQV300-1000PAVB4200331623	RE30	165-800	s400-054o

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List of emiss. related components

② # R-13-31  
DZX15.9002

Engine type	Displacement	Engine code	Nominal power ±5%	Nominal power ±5%	Nominal speed ±50rpm	Mean effective pressure at nominal power	Injection rate at nominal power ±6mm <sup>3</sup>	Peak torque ±5%	Speed at nom. torque ± 100rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±6mm <sup>3</sup>	Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (+300 rpm, dep. on engine applic.)	High idle (+300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Injection timing ±0.5	Speed governor	Speed governor, optionally	Smoke limiter, part of speed governor - 10mm <sup>3</sup>	Turbocharger
	cm <sup>3</sup>		HP	KW	rpm	bar	mm <sup>3</sup> /stroke	Nm	rpm	bar	mm <sup>3</sup> /stroke	Nm	bar	mm <sup>3</sup> /stroke	rpm	rpm	BOSCH TYPE	BOSCH TYPE	*btdc	BOSCH TYPE	GAC / EMR	mm <sup>3</sup> /stroke-rpm	Designation
BF6M1015C	11906	C261/2	350	261	2000	13.15	190	1666	1300	17.59	226	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168PV3188626	14		RE30	165-800	s400-040J
BF6M1015C	11906	C261/6	350	261	2000	13.15	185	1745	1200	18.42	241	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-1000PAVB4200331623	RE30	165-800	s3b-152h
BF6M1015C	11906	C300/2	402	300	1900	15.91	216	2036	1200	21.50	280	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-950PA1377	RE30	165-800	s3b-156g
BF6M1015C	11906	C300/4	402	300	1900	15.91	231	1960	1200	20.69	277	1800	19.00				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	12+1	RQV300-950 PA1421K	RE30	165-800	s3b-156g
BF6M1015C	11906	C286/2	383	286	1900	15.17	206	1941	1200	20.49	268	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-950PA1377	RE30	165-800	s3b-156g
BF6M1015C	11906	C286/3	383	286	1900	15.17	219	1868	1200	19.72	262	1700	17.95				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	12+1	RQV300-950 PA1421K	RE30	165-800	s3b-156g
BF6M1015C	11906	C273/2	366	273	1900	14.48	197	1852	1200	19.55	256	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-950PA1377	RE30	165-800	s3b-156g
BF6M1015C	11906	C273/4	366	273	1900	14.48	209	1783	1200	18.82	250	1610	17.00				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	12+1	RQV300-950 PA1421K	RE30	165-800	s3b-156g
BF6M1015C	11906	C261/3	350	261	1900	13.85	188	1771	1200	18.70	244	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-950PA1377	RE30	165-800	s3b-156g
BF6M1015C	11906	C285	382	285	1800	15.96	214	1905	1200	20.11	264	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-900PAVB420033639	RE30	165-800	s3b-156g
BF6M1015C	11906	C271	363	271	1800	15.17	205	1812	1200	19.13	250	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-900PAVB420033639	RE30	165-800	s3b-156g
BF6M1015C	11906	C259	347	259	1800	14.50	197	1731	1200	18.28	239	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-900PAVB420033639	RE30	165-800	s3b-156g
BF6M1015C	11906	C248	332	248	1800	13.89	189	1658	1200	17.50	228	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-900PAVB420033639	RE30	165-800	s3b-156g
BF6M1015C	11906	D341	457	341	1800	19.09	258	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE6P120A320LS7904-1 PE6P120A320LS7952	DLLA168P751	15	RQV900PAVB420033637	RE30	n.a.	s3b-152h
BF6M1015C	11906	D310	415	310	1800	17.36	235	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE6P120A320LS7904-1 PE6P120A320LS7952	DLLA168P751	15	RQV900PAVB420033637	RE30	n.a.	s3b-152h
BF6M1015C	11906	D271	363	271	1800	15.17	205	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	PE6P120A320LS7904-1 PE6P120A320LS7952	DLLA168P426	15	RQV900PAVB420033637	RE30	n.a.	s3b-152h
BF6M1015C	11906	C228	306	228	1500	15.32	203	1658	1200	17.50	228	1380	14.57				PE6P120A320LS7904 PE6P120A320LS7952	DLLA168P426	15	RQV300-900PAVB420033639	RE30	165-800	s3b-156g