

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-13-26
Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

DEUTZ AG

Pursuant to the authority vested in the Air Resources Board at Sections 43000.5, 43013, and 43018 of the Health and Safety Code; and

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

IT IS ORDERED AND RESOLVED: That the following diesel engines and exhaust emission control systems produced by the manufacturer are certified as described below for use in heavy-duty off-road equipment:

Model Year: 2000

Typical Equipment Usage: Generator Set and Other OEM Equipment

Engine Power Ratings Range: 175 – 750 horsepower, inclusive

Fuel Type: Diesel

<u>Engine Family</u>	<u>Displacement</u>		<u>Exhaust Emission Control Systems and Special Features</u>
	<u>Liters</u>	<u>Cubic Inches</u>	
YDZXL07.1004	7.2	436	Turbocharger
(BF6/4M 1013C)	4.8	290	Charge Air Cooler Smoke Puff Limiter

The engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values in grams per brake horsepower-hour (g/bhp-h) for total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

	<u>Exhaust Emissions (g/hp-h)</u>				<u>Smoke Opacity (%)</u>		
	<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
Standard	1.0	8.5	6.9	0.4	20	15	50
Certification	0.3	0.7	6.1	0.2	10	4	15

BE IT FURTHER RESOLVED: That the engine models listed on the attachments with engine power ratings less than 175 horsepower are not covered by this Executive Order.

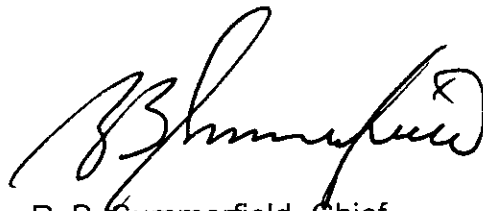
BE IT FURTHER RESOLVED: That the listed engine models comply with "Exhaust Emission Standards and Test Procedures -- Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels --1996 and Later Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

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, Sections 2425 *et seq.*).

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

Executed at El Monte, California this 7th day of February 2000.



R. B. Summerfield, Chief
Mobile Source Operations Division

V-R-13-Z6

YDZXL07.1004

List of emission related components

Engine type	Displacement	Engine code	HP	Nominal Power ± 5%	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective pressure	Injection rate at nom. speed, ±4mm ³	Peak torque ± 5%	Speed at peak torque ± 100 rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±4mm ³
	cm ³					rpm	bar	mm ³ /stroke	Nm	rpm	bar	mm ³ /stroke
BF 6M 1013 ECP	7146	C186/1	249	186	2600	12.01	110	907	1500	15.95	133	
BF 6M 1013 ECP	7146	C195	261	195	2500	13.10	120	907	1500	15.95	135	
BF 6M 1013 ECP	7146	C195/1	261	195	2300	14.24	127	954	1400	16.78	134	
BF 6M 1013 ECP	7146	C195/2	261	195	2300	14.24	125	907	1400	15.95	133	
BF 6M 1013 ECP	7146	C186	249	186	2300	13.58	120	897	1400	15.78	132	
BF 6M 1013 ECP	7146	C176	236	176	2300	12.85	113	850	1400	14.95	125	
BF 6M 1013 ECP	7146	C188	252	188	2200	14.35	126	954	1400	16.78	134	
BF 6M 1013 ECP	7146	C188/1	252	188	2200	14.35	125	907	1400	15.95	133	
BF 6M 1013 ECP	7146	C179	240	179	2200	13.66	119	897	1400	15.78	132	
BF 6M 1013 ECP	7146	C170	228	170	2200	12.98	113	850	1400	14.95	125	
BF 6M 1013 ECP	7146	C162/2	217	162	2200	12.37	108	850	1400	14.95	122	
BF 6M 1013 ECP	7146	C182	244	182	2100	14.55	125	955	1400	16.80	134	
BF 6M 1013 ECP	7146	C182/1	244	182	2100	14.55	125	907	1400	15.95	133	
BF 6M 1013 ECP	7146	C173	232	173	2100	13.83	119	897	1400	15.78	132	
BF 6M 1013 ECP	7146	C165	221	165	2100	13.19	113	850	1400	14.95	122	
BF 6M 1013 ECP	7146	C166	222	166	2000	13.94	118	897	1400	15.78	129	
BF 6M 1013 ECP	7146	C158	212	158	2000	13.27	112	850	1400	14.95	122	
BF 6M 1013 ECP	7146	C161/3	216	161	1900	14.23	119	897	1400	15.78	132	
BF 6M 1013 CP	7146	C190	255	190	2500	12.76	118	899	1500	15.81	133	
BF 6M 1013 CP	7146	C190/4	255	190	2400	13.29	124	890	1500	15.66	132	
BF 6M 1013 CP	7146	C177	237	177	2400	12.38	115	843	1500	14.83	125	
BF 6M 1013 CP	7146	C190/1	255	190	2300	13.87	127	946	1400	16.64	134	
BF 6M 1013 CP	7146	C190/2	255	190	2300	13.87	125	899	1400	15.81	133	
BF 6M 1013 CP	7146	C190/3	255	190	2300	13.87	129	946	1400	16.64	134	
BF 6M 1013 CP	7146	C181	243	181	2300	13.22	120	890	1400	15.66	132	
BF 6M 1013 CP	7146	C171	229	171	2300	12.48	113	843	1400	14.83	125	
BF 6M 1013 CP	7146	C161/2	216	161	2300	11.75	106	800	1400	14.07	118	
BF 6M 1013 CP	7146	C184	247	184	2200	14.04	126	946	1400	16.64	134	
BF 6M 1013 CP	7146	C184/1	247	184	2200	14.04	125	899	1400	15.81	133	

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List of emission related components

Engine type	Displacement cm ³	Engine code	Nominal Power ± 5% HP	Nominal Power ± 5% kW	Nominal speed ± 50 rpm rpm	Mean effective pressure bar	Injection rate at nom. speed, ±4mm ³ mm ³ / stroke	Peak torque ± 5% Nm	Speed at peak torque ± 100 rpm rpm	Mean effective pressure at peak torque bar	Injection rate at peak torque ±4mm ³ mm ³ / stroke
BF 6M 1013 CP	7146	C175	235	175	2200	13.36	119	890	1400	15.66	132
BF 6M 1013 CP	7146	C166/1	222	166	2200	12.67	113	843	1400	14.83	122
BF 6M 1013 CP	7146	C178	239	178	2100	14.23	125	946	1400	16.64	134
BF 6M 1013 CP	7146	C178/1	239	178	2100	14.23	125	899	1400	15.81	133
BF 6M 1013 CP	7146	C169	226	169	2100	13.51	119	890	1400	15.66	129
BF 6M 1013 CP	7146	C161	216	161	2100	12.87	113	843	1400	14.83	122
BF 6M 1013 CP	7146	C163	218	163	2000	13.69	118	890	1400	15.66	129
BF 6M 1013 CP	7146	C160/1	214	160	2000	13.43	116	890	1400	15.66	129
BF 6M 1013 CP	7146	C155	208	155	2000	13.01	112	843	1400	14.83	122
BF 6M 1013 CP	7146	C147	197	147	1800	13.71	115	843	1400	14.83	121
BF 6M 1013 EC	7146	C174	233	174	2300	12.70	112	854	1400	15.02	122
BF 6M 1013 EC	7146	C165/1	221	165	2300	12.05	107	811	1400	14.27	116
BF 6M 1013 EC	7146	C157	210	157	2300	11.46	102	769	1400	13.53	110
BF 6M 1013 EC	7146	C148	205	148	2300	10.81	94	727	1400	13.41	103
BF 6M 1013 EC	7146	C169/1	226	169	2200	12.90	112	854	1400	15.02	122
BF 6M 1013 EC	7146	C162/1	217	162	2200	12.37	108	854	1400	15.02	122
BF 6M 1013 EC	7146	C160	214	160	2200	12.21	106	811	1400	14.27	116
BF 6M 1013 EC	7146	C152	204	152	2200	11.60	101	769	1400	13.53	110
BF 6M 1013 EC	7146	C162	217	162	2100	12.95	110	854	1400	15.02	122
BF 6M 1013 EC	7146	C154	206	154	2100	12.31	105	811	1400	14.27	116
BF 6M 1013 EC	7146	C146	196	146	2100	11.67	100	769	1400	13.53	110
BF 6M 1013 EC	7146	C150	201	150	2000	12.59	106	811	1400	14.27	116
BF 6M 1013 EC	7146	C149	200	149	2000	12.51	106	811	1400	14.27	116
BF 6M 1013 EC	7146	C142	190	142	2000	11.92	101	769	1400	13.53	110
BF 6M 1013 C	7146	C170/1	228	170	2300	12.41	112	847	1400	14.90	122
BF 6M 1013 C	7146	C170/2	228	170	2300	12.41	114	847	1400	14.90	126
BF 6M 1013 C	7146	C161/1	216	161	2300	11.75	107	804	1400	14.14	116
BF 6M 1013 C	7146	C153	205	153	2300	11.17	102	762	1400	13.40	110
BF 6M 1013 C	7146	C144	205	144	2300	10.51	94	720	1400	13.41	110

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List of emission related components

Engine type	Displacement	Engine code	Nominal Power ± 5%	HP	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective pressure	Injection rate at nom. speed, ±4mm³	Peak torque ± 5%	Speed at peak torque ± 100 rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±4mm³
	cm³					rpm	bar	mm³/ stroke	Nm	rpm	bar	mm³/ stroke
BF 4M 1013 EC	4764	C103	138	103	2000	12.97	110	110	549	1400	14.49	120
BF 4M 1013 EC	4764	C103/1	138	103	2000	12.97	112	112	549	1400	14.49	121
BF 4M 1013 EC	4764	C98	131	98	2000	12.34	104	104	521	1400	13.75	114
BF 4M 1013 EC	4764	C98/1	131	98	2000	12.34	106	106	521	1400	13.75	115
BF 4M 1013 EC	4764	C86	115	86	2000	10.83	92	92	460	1400	12.14	101
BF 4M 1013 C	4764	C115/1	154	115	2500	11.59	108	108	578	1400	15.25	125
BF 4M 1013 C	4764	C115/2	154	115	2300	12.59	111	111	578	1400	15.25	126
BF 4M 1013 C	4764	C115/4	154	115	2300	12.59	114	114	578	1400	15.25	127
BF 4M 1013 C	4764	C112	150	112	2300	12.27	108	108	549	1400	14.49	120
BF 4M 1013 C	4764	C112/1	150	112	2300	12.27	111	111	549	1400	14.49	121
BF 4M 1013 C	4764	C104/1	139	104	2300	11.39	100	100	521	1400	13.75	114
BF 4M 1013 C	4764	C104/3	139	104	2300	11.39	103	103	521	1400	13.75	115
BF 4M 1013 C	4764	C111/1	149	111	2200	12.71	112	112	578	1400	15.25	126
BF 4M 1013 C	4764	C111/2	149	111	2200	12.71	115	115	578	1400	15.25	127
BF 4M 1013 C	4764	C108	145	108	2200	12.37	109	109	549	1400	14.49	120
BF 4M 1013 C	4764	C108/2	145	108	2200	12.37	112	112	549	1400	14.49	121
BF 4M 1013 C	4764	C101/1	135	101	2200	11.56	102	102	521	1400	13.75	114
BF 4M 1013 C	4764	C101/3	135	101	2200	11.56	105	105	521	1400	13.75	115
BF 4M 1013 C	4764	C108/1	145	108	2100	12.95	111	111	578	1400	15.25	126
BF 4M 1013 C	4764	C108/3	145	108	2100	12.95	113	113	578	1400	15.25	127
BF 4M 1013 C	4764	C104/2	139	104	2100	12.47	108	108	549	1400	14.49	120
BF 4M 1013 C	4764	C104/4	139	104	2100	12.47	110	110	549	1400	14.49	121
BF 4M 1013 C	4764	C99	133	99	2100	11.87	102	102	521	1400	13.75	114
BF 4M 1013 C	4764	C99/1	133	99	2100	11.87	104	104	521	1400	13.75	115
BF 4M 1013 C	4764	C101/2	135	101	2000	12.72	110	110	549	1400	14.49	120
BF 4M 1013 C	4764	C101/4	135	101	2000	12.72	112	112	549	1400	14.49	121
BF 4M 1013 C	4764	C96	129	96	2000	12.09	104	104	521	1400	13.75	114
BF 4M 1013 C	4764	C96/1	129	96	2000	12.09	106	106	521	1400	13.75	115
BF 6M 1013 FC	7146	D197	264	197	1800	18.38	147	147	n.a.	n.a.	n.a.	n.a.

List of emission related components

Engine type	Displacement	Engine code	Nominal Power ± 5%	HP	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective pressure	Injection rate at nom. speed, ±4mm ³	Peak torque ± 5%	Speed at peak torque ± 100 rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±4mm ³
	cm ³					rpm	bar	mm ³ /stroke	Nm	rpm	bar	mm ³ /stroke
BF 6M 1013 C	7146	C165/2	221	165	2200	12.59	112	847	1400	14.90	122	
BF 6M 1013 C	7146	C156	209	156	2200	11.91	106	804	1400	14.14	116	
BF 6M 1013 C	7146	C148	198	148	2200	11.30	101	728	1400	12.81	110	
BF 6M 1013 C	7146	C159	213	159	2100	12.71	110	847	1400	14.90	122	
BF 6M 1013 C	7146	C151	202	151	2100	12.07	105	804	1400	14.14	116	
BF 6M 1013 C	7146	C143	192	143	2100	11.43	100	762	1400	13.40	110	
BF 6M 1013 C	7146	C146/1	196	146	2000	12.26	106	804	1400	14.14	116	
BF 6M 1013 C	7146	C139	186	139	2000	11.67	101	762	1400	13.40	110	
BF 6M 1013 C	7146	C120	161	120	1500	13.43	101	762	1400	13.40	99	
BF 4M 1013 EC	4764	C118	158	118	2500	11.89	108	578	1400	15.25	125	
BF 4M 1013 EC	4764	C115/3	154	115	2500	11.59	105	549	1400	14.49	120	
BF 4M 1013 EC	4764	C118/1	158	118	2300	12.92	111	578	1400	15.25	126	
BF 4M 1013 EC	4764	C118/2	158	118	2300	12.92	114	578	1400	15.25	127	
BF 4M 1013 EC	4764	C115	154	115	2300	12.59	108	549	1400	14.49	120	
BF 4M 1013 EC	4764	C115/5	154	115	2300	12.59	111	549	1400	14.49	121	
BF 4M 1013 EC	4764	C107	143	107	2300	11.72	100	521	1400	13.75	114	
BF 4M 1013 EC	4764	C107/1	143	107	2300	11.72	103	521	1400	13.75	115	
BF 4M 1013 EC	4764	C114	153	114	2200	13.05	112	578	1400	15.25	126	
BF 4M 1013 EC	4764	C114/1	153	114	2200	13.05	115	578	1400	15.25	127	
BF 4M 1013 EC	4764	C111	149	111	2200	12.71	109	549	1400	14.49	120	
BF 4M 1013 EC	4764	C111/3	149	111	2200	12.71	112	549	1400	14.49	121	
BF 4M 1013 EC	4764	C104	139	104	2200	11.91	102	521	1400	13.75	114	
BF 4M 1013 EC	4764	C104/5	139	104	2200	11.91	105	521	1400	13.75	115	
BF 4M 1013 EC	4764	C110	147	110	2100	13.19	111	578	1400	15.25	126	
BF 4M 1013 EC	4764	C110/1	147	110	2100	13.19	113	578	1400	15.25	127	
BF 4M 1013 EC	4764	C106	142	106	2100	12.71	108	549	1400	14.49	120	
BF 4M 1013 EC	4764	C106/1	142	106	2100	12.71	110	549	1400	14.49	121	
BF 4M 1013 EC	4764	C101	135	101	2100	12.11	102	521	1400	13.75	114	
BF 4M 1013 EC	4764	C101/5	135	101	2100	12.11	104	521	1400	13.75	115	

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List of emission related components

Engine type	Displacement	Engine code	Nominal Power ± 5%	HP	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective pressure	Injection rate at nom. speed, ±4mm ³	Peak torque ± 5%	Speed at peak torque ± 100 rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±4mm ³
	cm ³		kW			rpm	bar	mm ³ /stroke	Nm	rpm	bar	mm ³ /stroke
BF 6M 1013 FC	7146	D170/1	228	170	1800	15.86	132	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 FC	4764	D122	163	122	1800	17.07	140	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 ECP	7146	D195	261	195	2400	13.64	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 ECP	7146	D190	255	190	2400	13.29	118	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 ECP	7146	D173	232	173	2400	12.10	108	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 ECP	7146	D182	244	182	2000	15.28	130	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 ECP	7146	D165	221	165	2000	13.85	118	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 ECP	7146	D174	233	174	1846	15.83	133	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 ECP	7146	D158	212	158	1846	14.37	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D190/1	255	190	2400	13.29	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D185	248	185	2400	12.94	118	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D167	224	167	2400	11.68	108	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D179	240	179	2000	15.03	130	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D162	217	162	2000	13.60	118	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D172	230	172	1846	15.65	133	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D156	209	156	1846	14.19	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D160/2	214	160	1800	14.93	128	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 CP	7146	D145	194	145	1800	13.53	114	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D170	228	170	2400	11.89	106	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D155	208	155	2400	10.85	97	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D163/1	218	163	2000	13.69	116	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D148	198	148	2000	12.43	106	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D156/1	209	156	1846	14.19	119	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D142	190	142	1846	12.92	109	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D163	218	163	1800	15.21	128	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D163/2	218	163	1800	15.21	128	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D155/1	208	155	1800	14.46	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 EC	7146	D148/1	198	148	1800	13.81	116	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D165/1	221	165	2400	11.54	106	n.a.	n.a.	n.a.	n.a.	n.a.

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List of emission related components

Engine type	Displacement	Engine code	Nominal Power ± 5%	HP	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective pressure	Injection rate at nom. speed, ±4mm ³	Peak torque ± 5%	Speed at peak torque ± 100 rpm	Mean effective pressure at peak torque	Injection rate at peak torque ±4mm ³
	cm ³					rpm	bar	mm ³ /stroke	Nm	rpm	bar	mm ³ /stroke
BF 6M 1013 C	7146	D150	201	150	2400	10.50	97	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D160/1	214	160	2000	13.43	116	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D146	196	146	2000	12.26	106	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D154	206	154	1846	14.01	119	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D140	188	140	1846	12.74	109	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D160	214	160	1800	14.93	128	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D152	204	152	1800	14.18	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 6M 1013 C	7146	D130	174	130	1800	12.13	102	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D113	151	113	2400	11.86	107	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D103	138	103	2400	10.81	97	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D108	145	108	2000	13.60	117	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D98	131	98	2000	12.34	106	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D104	139	104	1846	14.19	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D95	127	95	1846	12.96	110	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D110	147	110	1800	15.39	131	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D110/2	147	110	1800	15.39	131	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D105	141	105	1800	14.69	125	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 EC	4764	D100/1	134	100	1800	13.99	119	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D110/1	147	110	2400	11.54	107	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D100	134	100	2400	10.50	97	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D106	142	106	2000	13.35	117	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D96	129	96	2000	12.09	106	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D103/1	138	103	1846	14.05	121	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D93	125	93	1846	12.69	110	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D97	130	97	1800	13.57	131	n.a.	n.a.	n.a.	n.a.	n.a.
BF 4M 1013 C	4764	D92	123	92	1800	12.87	125	n.a.	n.a.	n.a.	n.a.	n.a.