

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 engines 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	ENGINE FAMILY	DISPLACEMENT	FUEL TYPE	USEFUL LIFE (hours)				
YEAR	ENGINE Anne	(liters)	Disast	8000				
2002	2DZXL02.9012	2.2, 2.9	Diesel					
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION				
Direct Dies	el Injection, Smoke Puf	Limiter, Turbocharger	Pump, Compressor, Loader, Industrial Equipment					

The engine models and codes are attached.

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):

					XHAUST (g/kw-h	<u></u>		OF	ACITY (%	(ه
RATED POWER	EMISSION STANDARD		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
CLASS 37 <kw<75< td=""><td>Tier 1</td><td>STD</td><td>N/A</td><td>9.2</td><td>N/A</td><td>N/A</td><td>N/A</td><td>20</td><td>15_</td><td>50 25</td></kw<75<>	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15_	50 25
3/ <u>5</u> KVV-13	11011	CERT		7.3				8		

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 ______ day of February 2002.

Allen Lyons, Chief

New Vehicle/Engine Programs Branch

Engine Model and Part Number Summary Form

ED#U-R-013-0070 Attachment 1082

C40	C38/1	C40/2	C42/1	C37.4	C39.4	C40/1	C42	C41,6	C43,6	C44.2	C43.5	C45.5	D45.6	D48	C44.4	C47	C48,5	C50,1	C52,7	C53,6	C53,5	C56,2	C55.8	C58.4	C58	C58,2	C61	C58/1	.	Code	Engine		EPA
BF3L1011FL	BF3L1011FL	BF3L1011FL	BF3L1011FL	BF3M1011F	BF3M1011F	BF3M1011F	BF3M1011F	BF3M1011F	BF3M1011F	BF3M1011F	BF3M1011F	BF3M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F	BF4M1011F		Elighte Model	To Mode		EPA Engine Family: 2DZXL02.9012
51		54	56	50	53	54	56	56	58	59	58	61	61	64	67	67	67	67	71	72	72	75	75	78	78	78	82	78	품		AHP P		2DZXL0
38.0	38.0	40.0	42.0	37.4	39.4	40.0	42.0	41.6	43.6	44.2	43.5	45.5	45.6	48.0	44.4	47.0	48.5	50.1	52.7	53.6	53.5	56.2	55.8	58.4	58.0	58.2	61.0	58.0	kW		BKW	.,	2.9012
2650										2700				1800	2000	2000	2300	2300	2300	2350	2500	2500	2650	2650	2750	2800	2800	3000	mdı	-	Power Engine Speed	Rated	
	51.5	•	1	•	'	•		•	•	•	•		•		•	•	•	•	'	•	•	•	•	•	•		55.0	52.0	stroke	mm³/	Injection rate at rated power ±6mm³		
	5 162												n,a	n.a																	torque ± 5%		
		1800		Ţ-		7-		-1			T	T	1	n.a.		1	1800	T		1		7			T		_			l l	torque ± 200 rpm	Speed at	
	1		 	n (T ('חרי	יח פ	ן י	יים כ	лc	ло	טונס	л П.а.	s <u>:</u>		<u>ئ</u>	54.5	51.	•	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	57	55 ST	-		л 7	50.0	, , , , , , , , , , , , , , , , , , ,	06 0:00	י Slicke	mm ³ /	peak torque ±4mm³	Injection rate at	
50 PFE1A80S3010				53 PEF1A80S3010			54 PFE1A80S3010	7 PFE1A80S3010	54 PFF1A80S3010	57 PEF1A80S3010	7 PFF1A80S3010	5 PFE1A80S3010	8 PEF1A80S3010	PFF1A80S3010		1 PFF1A80S3010	5 PFE1A80S3010	1.5 PFE1A80S3010		PFF1A80S3010	PFE1A80S3010 DLLA144P527	PFF1A80S3010	PEE1A80S3010	57 PEF1A80S3010	50 DEE1A80S3010	59 PFF1A80S3010	PFF1A80S3010		밁	description	Fuel injection pump		
0 DLLA144P527	l	- 1.		_ i-	_				→.	\perp			_		_ ↓.	_				DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	description	Fuel injector		
	5		- 1		ر ن			Ç1	CJ1	5	თ	27	5	5	5	5	5	Çī.	5	5	5	51	ζ1	5	5	ĊΊ	υ	យា	51	°btdc	timing (±1°)	Injection	
01000	\$1008 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	S100S 005	04272458EY	04272458EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	04272325EY	description	Turbocharger		

E0#4-K-013-0070

Engine Model and Part Number Summary Form

Manufacturer: DEUTZ AG
Engine category: Nonroad CI
EPA Engine Family: 2DZXL02.9012

C37/1	C37	C39	C39,5			Engine code	7
BF3L1011FL	BF3L1011FL	BF3L1011FL	BF3L1011FL			Engine Model	EFA ENGINE FAILING ADARCTOR OF A
50	50	52	53	Į	5	BHP	. 4042104
37.0	37.0	39.0	39.5	XVX	<u> </u>	BkW	2.00.5
1	1	2500	2600	rpm		Rated Power Engine Speed	
48.0	47.0	49.0	51.5		mm ³ /	ate at wer	
791		7 0	162	3	Z B		
1000	ì	1800	1		3	Speed at peak I torque ± 200 rpm	
ļ	J (50 60	υ _τ (2		stroke	nject pea	
	53 PEE1A80S3010 DLLA144P527	50 PFE1A80S3010 DLLA144P527	53 PFE1A80S3010 DLLA144P527	53 PEE1 AROS 3010 DLLA 144P527	description	Fuel injection pump	
	DLLA144P527	DLLA144P527	DLLA144P527	DLLA144P527	description	Fuel injector	
	σı	5	5	თ [.]	°btdc	Injection timing (
	S100S 005	S100S 005	S100S 005	S100S 005	description	Turbocharger	