California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0050 New Off-Road Compression-Ignition Engines

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	1DZXL05.7011	2.83, 3.77, 4.71, 5.66	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection	Pump, Compressor, Generator Set, Other Industrial Equipment

ENGINE MODELS (rated power in kilowatts, kw)	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
37≤KW<130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT	--	8.4	--	--	--	9	9	13

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 18TH day of June 2001.

FOR

R. B. Summerfield, Chief
Mobile Source Operations Division

Models "Attachment" Pg 1 of 4

List of emissio...elated components

EO# U-R-13-50

1. .L05.7011

Engine type	Displacement	Engine code	Nominal Power ± 5%	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective presuure	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	Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (+ 400rpm, dep. on engine applic.)	High idle (+300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Camshaft	Injection timing (-1°)	Speed governor
	cm³		HP	kW	rpm	bar	mm³/ stroke	Nm	rpm	bar	mm³/ stroke	Nm	bar	mm³/ stroke	rpm	rpm	description	description	draw. number	°btdc	description
F3L912	2827	C40	54	40.0	2500	6.79	57	178	1500	7.91	58				650	2600	PES3A95D410/3RS2939	DLLA147P875	02100079UA	12	RSV325-1250A5C858L/860L/861L
F3L912	2827	C40/1	54	40.0	2500	6.79	55	178	1500	7.91	57				650	2600	PES3A95D410/3RS2905	DLLA147P875	02100079UA	14	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38,5	52	38.5	2500	6.54	54	177	1500	7.87	54				650	2600	PES3A95D410/3RS2939	DLLA147P875	02100079UA	12	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38,5/	52	38.5	2500	6.54	52	171	1500	7.60	53				650	2600	PES3A95D410/3RS2905	DLLA147P875	02100079UA	14	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38	51	38.0	2500	6.45	53	169	1500	7.51	53				650	2600	PES3A95D410/3RS2939	DLLA147P875	02100079UA	12	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38/3	51	38.0	2500	6.45	51	169	1500	7.51	52				650	2600	PES3A95D410/3RS2905	DLLA147P875	02100079UA	14	RSV325-1250A5C858L/860L/861L
F3L912	2827	C37/2	50	37.0	2400	6.54	51	169	1500	7.51	52				650	2500	PES3A95D410/3RS2939	DLLA147P875	02100079UA	12	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38/1	51	38.0	2350	6.86	55.5	175	1500	7.78	56.5				650	2450	PES3A95D410/3RS2939	DLLA147P875	02100079UA	11	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38/4	51	38.0	2350	6.86	53.5	175	1500	7.78	55.5				650	2450	PES3A95D410/3RS2905	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38/2	51	38.0	2300	7.01	57	178	1500	7.91	58				650	2400	PES3A95D410/3RS2939	DLLA147P875	02100079UA	11	RSV325-1250A5C858L/860L/861L
F3L912	2827	C38/5	51	38.0	2300	7.01	55	178	1500	7.91	57				650	2400	PES3A95D410/3RS2905	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F3L912	2827	C37	50	37.0	2300	6.83	55	173	1500	7.69	55.5				650	2400	PES3A95D410/3RS2939	DLLA147P875	02100079UA	11	RSV325-1250A5C858L/860L/861L
F3L912	2827	C37/1	50	37.0	2300	6.83	53	173	1500	7.69	54.5				650	2400	PES3A95D410/3RS2905	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C57	76	57.0	2650	6.85	55.5	248	1500	8.27	58				650	2760	PES4A95D410/3RS2789	DLLA147P875	02100079UA	15.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C54	72	54.0	2500	6.88	54	243	1500	8.10	58				650	2600	PES4A95D410/3RS2934	DLLA147P875	02100079UA	13.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C54/1	72	54.0	2500	6.88	53	243	1500	8.10	56.5				650	2600	PES4A95D410/3RS2789	DLLA147P875	02100079UA	14	RSV325-1250A5C858L/860L/861L
F4L912	3770	C51	68	51.0	2500	6.49	51	228	1500	7.60	53.5				650	2600	PES4A95D410/3RS2934	DLLA147P875	02100079UA	12.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C51/2	68	51.0	2500	6.49	49	228	1500	7.60	52				650	2600	PES4A95D410/3RS2789	DLLA147P875	02100079UA	14	RSV325-1250A5C858L/860L/861L
F4L912	3770	C48	64	48.0	2500	6.11	47.5	216	1500	7.20	50				650	2600	PES4A95D410/3RS2934	DLLA147P875	02100079UA	12.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C48/2	64	48.0	2500	6.11	45.5	216	1500	7.20	49				650	2600	PES4A95D410/3RS2789	DLLA147P875	02100079UA	14	RSV325-1250A5C858L/860L/861L
F4L912	3770	C53/1	71	53.0	2400	7.03	56	243	1500	8.10	58				650	2500	PES4A95D410/3RS2934	DLLA147P875	02100079UA	13.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C49/5	66	49.0	2350	6.64	51	227	1500	7.57	53.5				650	2450	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C49/6	66	49.0	2350	6.64	49.5	227	1500	7.57	52				650	2450	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C51/1	68	51.0	2300	7.06	55.5	241	1500	8.04	58				650	2400	PES4A95D410/3RS2934	DLLA147P875	02100079UA	12.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C51/3	68	51.0	2300	7.06	54	241	1500	8.04	57.5				650	2400	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C49,5	66	49.5	2300	6.85	52	231	1500	7.70	54.5				650	2400	PES4A95D410/3RS2934	DLLA147P875	02100079UA	12.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C49/1	66	49.0	2300	6.78	52	231	1500	7.70	54.5				650	2400	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C49/3	66	49.0	2300	6.78	50.5	231	1500	7.70	53				650	2400	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C46	62	46.0	2300	6.37	48.5	217	1500	7.24	51				650	2400	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C46/4	62	46.0	2300	6.37	47	217	1500	7.24	50				650	2400	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C48/1	64	48.0	2250	6.79	51.5	229	1500	7.64	54				650	2400	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C48/2	64	48.0	2250	6.79	50.5	229	1500	7.64	52.5				650	2400	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C47	63	47.0	2200	6.80	51.5	227	1500	7.57	53.5				650	2400	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C47/1	63	47.0	2200	6.80	50.5	227	1500	7.57	52				650	2400	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C49/2	66	49.0	2150	7.25	55	241	1500	8.04	58				650	2240	PES4A95D410/3RS2934	DLLA147P875	02100079UA	12.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C49/4	66	49.0	2150	7.25	54.5	241	1500	8.04	57.5				650	2240	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C46/1	62	46.0	2150	6.81	50.5	226	1500	7.54	54				650	2240	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L

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List of emission related components

ED# 4-R-13-50

1. .L05.7011

Engine type	Displacement	Engine code	Nominal Power ± 5%	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective presuure	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	Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (+ 400rpm, dep. on engine applic.)	High idle (+300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Camshaft	Injection timing (-1°)	Speed governor
	cm³		HP	kW	rpm	bar	mm³/ stroke	Nm	rpm	bar	mm³/ stroke	Nm	bar	mm³/ stroke	rpm	rpm	description	description	draw. number	°btdc	description
F4L912	3770	C46/5	62	46.0	2150	6.81	49.5	226	1500	7.54	52.5				650	2240	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C43	58	43.0	2150	6.37	46.5	211	1500	7.04	49				650	2240	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C43/1	58	43.0	2150	6.37	45.5	211	1500	7.04	48				650	2240	PES4A95D410/3RS2789	DLLA147P875	02100079UA	13	RSV325-1250A5C858L/860L/861L
F4L912	3770	C46/3	62	46.0	2000	7.32	54.5	237	1500	7.90	58				650	2080	PES4A95D410/3RS2934	DLLA147P875	02100079UA	11.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C46/6	62	46.0	2000	7.32	54	237	1500	7.90	58				650	2080	PES4A95D410/3RS2789	DLLA147P875	02100079UA	12	RSV325-1250A5C858L/860L/861L
F4L912	3770	C44/1	59	44.0	2000	7.00	51.5	227	1500	7.57	54				650	2080	PES4A95D410/3RS2934	DLLA147P875	02100079UA	10.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C44/2	59	44.0	2000	7.00	51	227	1500	7.57	52.5				650	2080	PES4A95D410/3RS2789	DLLA147P875	02100079UA	12	RSV325-1250A5C858L/860L/861L
F4L912	3770	C42	56	42.0	2000	6.68	49	216	1500	7.20	50.5				650	2080	PES4A95D410/3RS2934	DLLA147P875	02100079UA	10.5	RSV325-1250A5C858L/860L/861L
F4L912	3770	C42/1	56	42.0	2000	6.68	48.5	216	1500	7.20	49.5				650	2080	PES4A95D410/3RS2789	DLLA147P875	02100079UA	12	RSV325-1250A5C858L/860L/861L
F4L912	3770	D43	58	43.0	1800	7.60	57	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES4A95D410/3RS2932	DLLA147P854	02100079UA	10	RSV550-900A1C953L
F4L912	3770	D41	55	41.0	1800	7.25	54	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES4A95D410/3RS2932	DLLA147P854	02100079UA	10	RSV550-900A1C953L
F4L912	3770	D40	54	40.0	1800	7.07	53	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES4A95D410/3RS2934	DLLA147P875	02100079UA	10	RSV325-1250A5C858L/860L/861L
F4L912	3770	D39	52	39.0	1800	6.90	51	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES4A95D410/3RS2932	DLLA147P854	02100079UA	10	RSV550-900A1C953L
F5L912	4712	C68	91	68.0	2500	6.93	54	307	1500	8.19	58				650	2600	PES5A95D410/3RS2936	DLLA147P875	02100079UA	13	RSV325-1250A5C885L
F5L912	4712	C68/1	91	68.0	2500	6.93	54	307	1500	8.19	58				650	2600	PES5A95D410/3RS2906	DLLA147P875	02100079UA	16	RSV325-1250A5C885L
F5L912	4712	C65	87	65.0	2500	6.62	52	293	1500	7.82	55				650	2600	PES5A95D410/3RS2936	DLLA147P875	02100079UA	13	RSV325-1250A5C885L
F5L912	4712	C65/3	87	65.0	2500	6.62	51	293	1500	7.82	54				650	2600	PES5A95D410/3RS2906	DLLA147P875	02100079UA	16	RSV325-1250A5C885L
F5L912	4712	C63	84	63.0	2500	6.42	50	284	1500	7.58	53				650	2600	PES5A95D410/3RS2936	DLLA147P875	02100079UA	13	RSV325-1250A5C885L
F5L912	4712	C63/1	84	63.0	2500	6.42	49.5	284	1500	7.58	52				650	2600	PES5A95D410/3RS2906	DLLA147P875	02100079UA	16	RSV325-1250A5C885L
F5L912	4712	C58	78	58.0	2400	6.15	47	269	1500	7.18	49				650	2600	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C58/4	78	58.0	2400	6.15	45.5	269	1500	7.18	48				650	2600	PES5A95D410/3RS2906	DLLA147P875	02100079UA	16	RSV325-1250A5C885L
F5L912	4712	C65/2	87	65.0	2300	7.20	55	306	1500	8.16	58				650	2400	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C65/4	87	65.0	2300	7.20	55	306	1500	8.16	58				650	2400	PES5A95D410/3RS2906	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C61	82	61.0	2300	6.75	51.5	289	1500	7.71	55				650	2400	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C61/1	82	61.0	2300	6.75	51	289	1500	7.71	53.5				650	2400	PES5A95D410/3RS2906	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C58/1	78	58.0	2300	6.42	48.5	274	1500	7.31	50.5				650	2400	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C58/5	78	58.0	2300	6.42	48	274	1500	7.31	49.5				650	2400	PES5A95D410/3RS29066	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C57	76	57.0	2300	6.31	47.5	270	1500	7.20	49.5				650	2400	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C57/1	76	57.0	2300	6.31	46.5	270	1500	7.20	48.5				650	2400	PES5A95D410/3RS2906	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C59	79	59.0	2200	6.83	51	287	1500	7.66	54.5				650	2400	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C59/1	79	59.0	2200	6.83	51	287	1500	7.66	52.5				650	2400	PES5A95D410/3RS2906	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C62	83	62.0	2150	7.34	55	305	1500	8.14	58				650	2240	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C62/1	83	62.0	2150	7.34	55	305	1500	8.14	57.5				650	2240	PES5A95D410/3RS2906	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C58/2	78	58.0	2150	6.87	51	286	1500	7.63	54				650	2240	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L
F5L912	4712	C58/6	78	58.0	2150	6.87	51	286	1500	7.63	53				650	2240	PES5A95D410/3RS2906	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C55	74	55.0	2150	6.51	48.5	271	1500	7.23	50				650	2240	PES5A95D410/3RS2936	DLLA147P875	02100079UA	12	RSV325-1250A5C885L

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List of emission related components

EO# 4-R-13-50 1. .L05.7011

Engine type	Displacement	Engine code	Nominal Power ± 5%	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective presuure	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	Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (+ 400rpm, dep. on engine applic.)	High idle (+300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Camshaft	Injection timing (-1°)	Speed governor
	cm³		HP	kW	rpm	bar	mm³/ stroke	Nm	rpm	bar	mm³/ stroke	Nm	bar	mm³/ stroke	rpm	rpm	description	description	draw. number	°btdc	description
F5L912	4712	C55/2	74	55.0	2150	6.51	48	271	1500	7.23	49				650	2240	PES5A95D410/3RS2906	DLLA147P875	02100079UA	15	RSV325-1250A5C885L
F5L912	4712	C58/3	78	58.0	2000	7.38	55	299	1500	7.98	58				650	2080	PES5A95D410/3RS2936	DLLA147P875	02100079UA	11	RSV325-1250A5C885L
F5L912	4712	C58/7	78	58.0	2000	7.38	55	299	1500	7.98	56				650	2080	PES5A95D410/3RS2906	DLLA147P875	02100079UA	14	RSV325-1250A5C885L
F5L912	4712	C55/1	74	55.0	2000	7.00	52	284	1500	7.58	54				650	2080	PES5A95D410/3RS2936	DLLA147P875	02100079UA	11	RSV325-1250A5C885L
F5L912	4712	C55/3	74	55.0	2000	7.00	51.5	284	1500	7.58	53				650	2080	PES5A95D410/3RS2906	DLLA147P875	02100079UA	14	RSV325-1250A5C885L
F5L912	4712	C52	70	52.0	2000	6.62	49	269	1500	7.18	50				650	2080	PES5A95D410/3RS2936	DLLA147P875	02100079UA	11	RSV325-1250A5C885L
F5L912	4712	C52/1	70	52.0	2000	6.62	48	269	1500	7.18	49				650	2080	PES5A95D410/3RS2906	DLLA147P875	02100079UA	14	RSV325-1250A5C885L
F5L912	4712	C53	71	53.0	1800	7.50	55	299	1500	7.98	58				650	2080	PES5A95D410/3RS2936	DLLA147P875	02100079UA	10.5	RSV325-1250A5C885L
F6L912	5655	C85	115	86.0	2650	6.89	55	364	1500	8.09	58				650	2600	PES6A95D410/3RS2907	DLLA147P875	02100079UA	18	RSV325-1250A5C874L/950L
F6L912	5655	C82	110	82.0	2500	6.96	54.5	369	1500	8.20	58				650	2600	PES6A95D410/3RS2938	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	C82/1	110	82.0	2500	6.96	54	369	1500	8.20	58				650	2600	PES6A95D410/3RS2907	DLLA147P875	02100079UA	16	RSV325-1250A5C874L/950L
F6L912	5655	C78	105	78.0	2500	6.62	52	351	1500	7.80	55				650	2600	PES6A95D410/3RS2938	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	C78/2	105	78.0	2500	6.62	51	351	1500	7.80	54				650	2600	PES6A95D410/3RS2907	DLLA147P875	02100079UA	16	RSV325-1250A5C874L/950L
F6L912	5655	C76	102	76.0	2500	6.45	50.5	342	1500	7.60	53.5				650	2600	PES6A95D410/3RS2938	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	C76/1	102	76.0	2500	6.45	49.5	343	1500	7.62	52.5				650	2600	PES6A95D410/3RS2907	DLLA147P875	02100079UA	16	RSV325-1250A5C874L/950L
F6L912	5655	C74	99	74.0	2500	6.28	49	334	1500	7.42	51				650	2600	PES6A95D410/3RS2938	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	C74/3	99	74.0	2500	6.28	48	334	1500	7.42	51				650	2600	PES6A95D410/3RS2907	DLLA147P875	02100079UA	16	RSV325-1250A5C874L/950L
F6L912	5655	C72	96	72.0	2500	6.11	47.5	324	1500	7.20	49				650	2600	PES6A95D410/3RS2938	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	C72/1	96	72.0	2500	6.11	46.5	324	1500	7.20	48.5				650	2600	PES6A95D410/3RS2907	DLLA147P875	02100079UA	16	RSV325-1250A5C874L/950L
F6L912	5655	C80	107	80.0	2400	7.07	54.5	369	1500	8.20	59				650	2600	PES6A95D410/3RS2938	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	C70,5	94	70.5	2400	6.23	48	329	1500	7.31	50.5				650	2600	PES6A95D410/3RS2938	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	C78/1	105	78.0	2300	7.20	54.5	366	1500	8.14	58				650	2400	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C78/3	105	78.0	2300	7.20	55	366	1500	8.14	58				650	2400	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L
F6L912	5655	C74/1	99	74.0	2300	6.83	51.5	347	1500	7.71	55.5				650	2400	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C74/4	99	74.0	2300	6.83	51.5	347	1500	7.71	53.5				650	2400	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L
F6L912	5655	C70	94	70.0	2300	6.46	48.5	329	1500	7.31	50.5				650	2400	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C70/3	94	70.0	2300	6.46	48	329	1500	7.31	49.5				650	2400	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L
F6L912	5655	C69	92	69.0	2300	6.37	47.5	324	1500	7.20	49.5				650	2400	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C69/1	92	69.0	2300	6.37	47	324	1500	7.20	48.5				650	2400	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L
F6L912	5655	C65/3	87	65.0	2300	6.00	44.5	307	1500	6.82	46				650	2400	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C65/4	87	65.0	2300	6.00	45	307	1500	6.82	45				650	2400	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L
F6L912	5655	C74/2	99	74.0	2150	7.30	54.5	361	1500	8.02	58				650	2240	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C74/5	99	74.0	2150	7.30	54.5	361	1500	8.02	56.5				650	2240	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L
F6L912	5655	C70/1	94	70.0	2150	6.91	51.5	341	1500	7.58	53.5				650	2240	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C70/4	94	70.0	2150	6.91	51	341	1500	7.58	52.5				650	2240	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L
F6L912	5655	C66	88	66.0	2150	6.51	48.5	322	1500	7.16	49				650	2240	PES6A95D410/3RS2938	DLLA147P875	02100079UA	12.5	RSV325-1250A5C874L/950L
F6L912	5655	C66/2	88	66.0	2150	6.51	48	322	1500	7.16	48.5				650	2240	PES6A95D410/3RS2907	DLLA147P875	02100079UA	15	RSV325-1250A5C874L/950L

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Engine type	Displacement	Engine code	Nominal Power ± 5%	Nominal Power ± 5%	Nominal speed ± 50 rpm	Mean effective presuure	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	Torque at 1000 rpm	Mean effective pressure at 1000 rpm	Injection rate at 1000 rpm	Low idle (+ 400rpm, dep. on engine applic.)	High idle (+300 rpm, dep. on engine applic.)	Fuel injection pump	Fuel injection nozzle	Camshaft	Injection timing (-1°)	Speed governor
	cm³		HP	kW	rpm	bar	mm³/ stroke	Nm	rpm	bar	mm³/ stroke	Nm	bar	mm³/ stroke	rpm	rpm	description	description	draw. number	°btdc	description
F6L912	5655	C70/2	94	70.0	2000	7.43	55.5	357	1500	7.94	58				650	2080	PES6A95D410/3RS2938	DLLA147P875	02100079UA	11.5	RSV325-1250A5C874L/950L
F6L912	5655	C70/5	94	70.0	2000	7.43	55.5	357	1500	7.94	56				650	2080	PES6A95D410/3RS2907	DLLA147P875	02100079UA	14	RSV325-1250A5C874L/950L
F6L912	5655	C66/1	88	66.0	2000	7.00	52.5	337	1500	7.49	53				650	2080	PES6A95D410/3RS2938	DLLA147P875	02100079UA	11.5	RSV325-1250A5C874L/950L
F6L912	5655	C66/3	88	66.0	2000	7.00	51.5	337	1500	7.49	52				650	2080	PES6A95D410/3RS2907	DLLA147P875	02100079UA	14	RSV325-1250A5C874L/950L
F6L912	5655	C63/1	84	63.0	2000	6.68	49.5	322	1500	7.16	49.5				650	2080	PES6A95D410/3RS2938	DLLA147P875	02100079UA	11.5	RSV325-1250A5C874L/950L
F6L912	5655	C63/2	84	63.0	2000	6.68	48.5	322	1500	7.16	49				650	2080	PES6A95D410/3RS2907	DLLA147P875	02100079UA	14	RSV325-1250A5C874L/950L
F6L912	5655	C64	86	64.0	1800	7.55	59	350	1500	7.78	56				650	2080	PES6A95D410/3RS2938	DLLA147P875	02100079UA	11	RSV325-1250A5C874L/950L
F6L912	5655	C64/1	86	64.0	1800	7.55	55.5	350	1500	7.78	54				650	2080	PES6A95D410/3RS2907	DLLA147P875	02100079UA	14	RSV325-1250A5C874L/950L
F6L912	5655	D75,5	101	75.5	2400	6.68	52	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES6A95D410/3RS2907	DLLA147P875	02100079UA	13	RSV325-1250A5C874L/950L
F6L912	5655	D66	88	66.0	1800	7.78	56	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES6A95D410/3RS2937	DLLA147P854	02100079UA	13	RSV550-900A1C953L
F6L912	5655	D63	84	63.0	1800	7.43	54	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES6A95D410/3RS2937	DLLA147P854	02100079UA	13	RSV550-900A1C953L
F6L912	5655	D60	80	60.0	1800	7.07	51	n. a.	n. a.	n. a.	n. a.				n. a.	n. a.	PES6A95D410/3RS2937	DLLA147P854	02100079UA	13	RSV550-900A1C953L