



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-02-003;

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 YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2006	6DWXL05.8UTA	5.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Engine Control Module, Turbocharger, Charge Air Cooler			Loaders, Compressor, Generator Set, Other OEM Products	

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):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.8	0.8	0.13	14	3	26

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 12 day of December 2006.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: Doosan Infracore Co., Ltd.
Engine category: Nonroad CI
EPA Engine Family: 6DWXL05.8UTA
Mfr Family Name: DL06
Process Code: New Submission

Attachment
 E0#U-R-019-0095

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.DPF TC ₁ CAC
DL06 TST		221.3 @ 2200	116	84.5	621.8 @ 1400	134	62.2	
DL06 TLC		162.8 @ 2100	84	58.4	593.0 @ 1400	121	56.1	
DL06 TEF		172.6 @ 1900	96	60.4	564.2 @ 1400	114	52.9	
DL06 TEH		169.6 @ 2000	90	59.6	542.8 @ 1400	108	50.1	
DL06 TLD		143.0 @ 2100	73	50.8	506.0 @ 1400	106	49.2	
DL06 TEI		162.8 @ 1900	93	58.5	520.7 @ 1400	102	47.3	
DL06 TEG		154.9 @ 1900	88	55.4	506.0 @ 1400	101	46.9	
DL06 TFC		157.8 @ 2100	83	57.7	484.6 @ 1400	95	44.1	
DL06 TFD		138.1 @ 2100	73	50.8	427.0 @ 1400	83	38.5	
DL06 TEK		134.1 @ 2000	70	46.3	397.5 @ 1400	74	34.3	
DL06 TEJ		122.3 @ 1950	67	43.3	340.0 @ 1400	70	32.5	
DL06 TEL		98.6 @ 1850	56	34.3	289.1 @ 1400	66	30.6	