EXECUTIVE ORDER U-L-004-0034
New Off-Road Large Spark-Ignition
Engines Above 19 Kilowatts

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following new large spark-ignition engines and emission control systems produced by the manufacturer are certified for use in off-road equipment as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE		
2017 HTIEB02.204Y		2.237	Gasoline, LPG, Gasoline-LPG Dual Fuel, Gasoline-CNG Dual Fuel		
DURABILITY HOURS	SPEC	IAL FEATURES & CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE		
5000 Heate		ay Catalytic Converter, ed Oxygen Sensor, port Fuel Injection	Forklift and Tractor		
ENGI	NE MODELS er in kilowatt, kW)		See Attachment		

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust certification emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2433(b)(1)) and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(3).

(g/kW-hr)	HC+NOx	со		
Exhaust Standards	0.8	20.6		
Certification Levels	0.4	15.8		

The following is the evaporative hydrocarbon emission standard (13 CCR Section 2433(b)(4)) and certification emission level for this engine family in grams per gallon of fuel tank capacity (g/gallon).

Evaporative Certification Method	HC Certification Level (g/gallon)	HC Certification Standard (g/gallon)		
Design Based	N/A	. 0.2		

BE IT FURTHER RESOLVED: That for the listed engines for the aforementioned model-year, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2433(c) (certification and test procedures), 13 CCR Section 2434 (emission control labels), and 13 CCR Sections 2435 and 2436 (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 December 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT BY 1081

Model Year: 2017
Manufacturer Name: TOYOTA INDUSTRIAL EQUIPMENT
Engine Family: HTIEB02.204Y
OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Page:	u.	-2-007-00
Issued:	•	
Revised:		
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S12. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

S13. Engine Model	S14. Engine Code	S15. Sales Codes (Check ALL appropriate)		S16. Eng. Displ. (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed	
		Calif. Only	49- State	50- State	(Liters)	(KVV)	(RPW)	(FI-LD)	(RPM)
4Y(G)	508			Х	2.237	38	2570	118	2100
4YL(G)	508			х	2.237	36	2250	118	2100
4Y(G/LP)	508			х	2.237	38(LPG) 38(G)	2570	118(LPG) 118(G)	2100(LPG) 2100(G)
4YL(G/LP)	50\$			х	2.237	36(LPG) 36(G)	2250	118(LPG) 118(G)	2100(LPG) 2100(G)
4YH(LPG)	50S			X	2.237	42	2570	118	2200
4Y(LPG)	508			Х	2.237	38	2570	118	2100
4YL(LPG)	50S			х	2.237	36	2250	118	2100
4Y(G/CN)	508			х	2.237	37(CNG) 38(G)	2570	108(CNG) 113(G)	1600(CNG) 2200(G)
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