

MOTORENFABRIK HATZ GMBH & CO. KG

EXECUTIVE ORDER U-R-034-0328 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in California 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-19-095;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)						
2021	MHZXL1.95C51	1.463, 1.951	Diesel	8000						
SPECIAL	FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLIC	TYPICAL EQUIPMENT APPLICATION						
Die Rec	ic Direct Injection, Perionsel Oxidation Catalyst, Firculation, Electronic Co Turbocharger, Charge	Exhaust Gas ontrol Module,	Pump, Compressor, Genera	ator Set						

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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			I	EXHAUST (g/kw-l	OPACITY (%)				
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
19 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.5	0.8	0.002			

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).

BE IT FURTHER RESOLVED: That for the listed engine models which include engines from different power categories in the same engine family, the manufacturer is complying with the more stringent set of standards from the 37 ≤ kW < 56 power category in conformance with the incorporated Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

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 on this 2nd day of February 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-034-0328 Family: MHZXL1.95C51 Attachment Last Revised: 1/15/2021

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power -		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Fuel Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
	3H50TIC	_		- Displacement	- Cinics	- can rower	- Cinco	Speca (i piii)	- ucing	Tuel omes	- can rorque	00	Speed (i piii)	1 46.	- der omes		1	Special	Trotes
3H50TICD			13	1.463	Liters	25.6	kilowatt	1500	50.5	mm3/stroke	162.3	N-m	1500	50.5	mm3/stroke	N/A	N/A	N/A	N/A
	IFN	'								,					.,	'	′	'	'
	зн50тіс																		
3H50TICD			13	1.463	Liters	22.6	kilowatt	1500	46.0	mm3/stroke	143.9	N-m	1500	46.0	mm3/stroke	N/A	N/A	N/A	N/A
	ICFN																		
	3H50TIC																		
3H50TICD		N/A	13	1.463	Liters	31.3	kilowatt	1800	50.5	mm3/stroke	166.1	N-m	1800	50.5	mm3/stroke	N/A	N/A	N/A	N/A
	IFN																-		
	3H50TIC																		
3H50TICD	D-cs-18-	N/A	13	1.463	Liters	28.5	kilowatt	1800	47.0	mm3/stroke	151.2	N-m	1800	47.0	mm3/stroke	N/A	N/A	N/A	N/A
																	-		
4H50TICD	4H50TIC		14	1.951	Liters	35.0	kilowatt	1500	50.5	mm3/stroke	222.8	N-m	1500	50.5	mm3/stroke	N/A	N/A	N/A	N/A
	IFN	IN/A	14	1.951	Liters	33.0	Kilowatt	1300	30.3	mms/stroke	222.0	IN-III	1500	30.5	mms/stroke	111/	111/7	IN/A	IN/A
	4H50TIC																		
4H50TICD			14	1.951	Liters	31.0	kilowatt	1500	46.0	mm3/stroke	297.4	N-m	1500	46.0	mm3/stroke	N/A	N/A	N/A	N/A
	ICFN														,	'	'	'	'
	4H50TIC																		
4H50TICD		N/A	14	1.951	Liters	41.0	kilowatt	1800	49.0	mm3/stroke	217.5	N-m	1800	49.0	mm3/stroke	N/A	N/A	N/A	N/A
	IFN																		
	4H50TIC																		
4H50TICD		N/A	14	1.951	Liters	36.4	kilowatt	1800	44.0	mm3/stroke	193.1	N-m	1800	44.0	mm3/stroke	N/A	N/A	N/A	N/A
	ICFN																-		+
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