Pursuant to the authority vested in the California Air Resources Board by 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-19-095;

IT IS ORDERED AND RESOLVED: The engines and emission control systems produced by the manufacturer as described below are certified 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	Combustion Cycle	Fuel Operation	Fuel Type(s)	Engine Operation
2025	SDZXL02.9016	Diesel	Dedicated	Diesel	Variable-speed and Constant-speed

Emission Control Systems	Special Features
[1]: Direct Diesel Injection (DDI), Turbocharger (TC), Charge Air Cooler (CAC), Electronic Control Module (ECM), Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC)	None

The certified engine models are attached.

The listed engine models comply with the following: 1) emission standard limits (STD) and Not-To-Exceed (NTE) limits, as applicable, for criteria pollutants non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM), and for smoke opacity as demonstrated during the Acceleration (ACL) and Lugging (LUG) modes, and the peak value (PEAK) in either mode of the Smoke Opacity cycle, as set forth in 13 CCR 2423 and the applicable California test procedures for off-road compression-ignition engines, and 2) family emission limits (FEL) declared by the manufacturer as allowed by the applicable California test procedures, stated in units of gram per kilowatt-hour (g/kW-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (*).

Applicable Standard		Criteria			Smoke Opacity		
		NMHC+NOx	CO	PM	ACL	LUG	PEAK
Tier 4 Final 37 ≤ kW < 56	STD	4.7	5.0	0.03	*	*	*
	FEL	*	*	*	*	*	*
	NTE	5.9	6.2	0.04	*	*	*

BE IT FURTHER RESOLVED: Any declared FEL is the emission limit to which all engines must comply in lieu of the standard limit for certification purposes, subject to the restrictions of averaging, banking, or trading (ABT) programs allowed by the applicable California test procedures.

BE IT FURTHER RESOLVED: For the listed engine models, the manufacturer has submitted materials to demonstrate certification compliance with 13 CCR 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models may only be installed in or on equipment such that engine operation is consistent with off-road compression-ignition engines as defined in 13 CCR 2421(a)(39).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed on this 14th day of October 2024.

Rina Yacoubian for

Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: SDZXL02.9016 EO Number: U-R-013-0759 Date Applicable: 9/20/2024

					Peak Power			Peak Torque					
Model	Code	Trim	Config	Displacement	Power	Speed	Fueling	Torque	Speed	Fueling	ECS Num	GHG	Notes
-	-	-	-	L	hp	rpm	lb/hr	lb-ft	rpm	lb/hr	-	-	-
TCD2.9L4	C4DI55C		L4	2.925	74.2	2300	29.1	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI55H		L4	2.925	74.2	2200	27.6	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI45E		L4	2.925	60.3	2300	25	177	1600	19.1	1	N/A	
TCD2.9L4	C4DI54A		L4	2.925	72.4	2200	27.6	191.7	1800	23.5	1	N/A	
TCD2.9L4	C4DT50B		L4	2.925	67	2200	25.6	200.6	1600	21.8	1	N/A	
TCD2.9L4	C4DI45F		L4	2.925	60.3	2200	23.9	177	1600	19.1	1	N/A	
TCD2.9L4	C4DT45B		L4	2.925	60.3	2200	23.9	179.9	1600	19.7	1	N/A	
TCD2.9L4	C4DI55G		L4	2.925	74.2	2300	29.1	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DT55C		L4	2.925	74.2	2200	27.6	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DT50A		L4	2.925	67	2200	25.6	200.6	1600	21.8	1	N/A	
TCD2.9L4	C4DT45A		L4	2.925	60.3	2200	23.9	179.9	1600	19.7	1	N/A	
TCD2.9L4	C4DI50G		L4	2.925	67	2300	26.7	199.1	1600	23.9	1	N/A	
TCD2.9L4	C4DT55D		L4	2.925	74.2	2200	27.6	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DT55B		L4	2.925	74.2	2200	27.6	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DT55A		L4	2.925	74.2	2200	27.6	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI45D		L4	2.925	60.3	2600	27.1	177	1600	19.1	1	N/A	
TCD2.9L4	C4DI54		L4	2.925	72.4	2200	27.6	191.7	1800	23.5	1	N/A	
TCD2.9L4	C4DI55B		L4	2.925	74.2	2400	30.2	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI55		L4	2.925	74.2	2600	29.1	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DT50		L4	2.925	67	2200	25.6	200.6	1600	21.8	1	N/A	
TCD2.9L4	C4DT45		L4	2.925	60.3	2200	23.9	179.9	1600	19.7	1	N/A	
TCD2.9L4	C4DI45B		L4	2.925	60.3	2200	23.9	177	1600	19.1	1	N/A	
TCD2.9L4	C4DI55D		L4	2.925	74.2	2200	27.6	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI50C		L4	2.925	67	2300	26.7	199.1	1600	23.9	1	N/A	
TCD2.9L4	C4DI55I		L4	2.925	74.2	2600	29.1	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI55A		L4	2.925	74.2	2500	31.3	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI45		L4	2.925	60.3	2600	27.1	177	1600	19.1	1	N/A	
TCD2.9L4	C4DI45A		L4	2.925	60.3	2300	25	177	1600	19.1	1	N/A	
TCD2.9L4	C4DT55		L4	2.925	74.2	2200	27.6	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI55E		L4	2.925	74.2	2500	31.3	221.2	1600	23.9	1	N/A	
TCD2.9L4	C4DI55F		L4	2.925	74.2	2400	30.2	221.2	1600	23.9	1	N/A	