

EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DA-7000SSA3



The engine used in this generator set is certified to comply with United States EPA Tier 4 and CARB Mobile Off-Highway emission regulations.

ENGINE DATA

Manufacturer:	KUBOTA	Bore:	2.52 in. (64 mm)
Model:	Z482	Stroke:	2.68 in. (68 mm)
Type:	4-Cycle, In-Line, 2-Cylinder, Diesel	Displacement:	29.2 cid (0.479 liters)
Aspiration:	Naturally Aspirated, Indirect Injection	Compression Ratio:	23:1

PERFORMANCE DATA

SAE Gross HP @ 3600 RPM (60 Hz) Rated	12.3
Load Fuel Consumption (gal/Hr) Rated	0.69
Load Exhaust Gas Flow (cfm) Rated Load	66
Exhaust Gas Temperature (°F)	932

United States EPA - Mobile Off-Highway Tier 4

Limits -

0 ≤ ~ ≤ 25 BHP

Criteria Pollutant	Emission Requirements		NTE Engine Emissions	
NOx (Oxides of Nitrogen as NO ₂)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
HC (Total Unburned Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
NOx + HC (Combined)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
CO (Carbon Monoxide)	4.92	gr/bhp-hr	6.11	gr/bhp-hr
PM (Particulate Matter)	0.29	gr/bhp-hr	0.37	gr/bhp-hr
NMHC (Non-Methane Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
NMHC + NOx	5.59	gr/bhp-hr	7.00	gr/bhp-hr

EPA Engine Family:	SKBXL.719KCC
EPA Certificate of Conformance:	SKBXL.719KCC-026
ARB Executive Order:	U-R-025-1158
Effective Date:	Model Year 2025

Note: Engine operation with excessive air intake or exhaust restriction beyond factory published maximum limits, or with improper service maintenance, may result in higher emission levels.

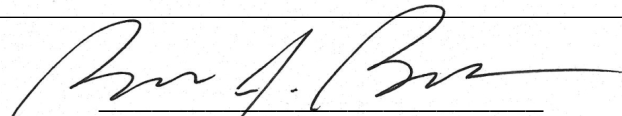


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2025 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Kubota Corporation
(U.S. Manufacturer or Importer)
Certificate Number: SKBXL719KCC-026

Effective Date:
09/23/2024
Expiration Date:
12/31/2025


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
09/23/2024
Revision Date:
N/A

Model Year: 2025
Manufacturer Type: Original Engine Manufacturer
Engine Family: SKBXL719KCC

Mobile/Stationary Indicator: Both
Emissions Power Category: $8 \leq kW < 19$
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Parts 60 and 1039, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Parts 60 and 1039 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Parts 60 and 1039 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 60 and 1039.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Parts 60 and 1039. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Parts 60 and 1039.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

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	SKBXL719KCC	Diesel	Dedicated	Diesel	Constant Speed Only

Emission Control Systems	Special Features
[1]: Indirect Diesel Injection (IFI)	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+NO_x), 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+NO _x	CO	PM	ACL	LUG	PEAK
Tier 4 Final 8 ≤ kW < 19	STD	7.5	6.6	0.40	*	*	*
	FEL	*	*	*	*	*	*
	NTE	9.4	8.2	0.50	*	*	*

BE IT FURTHER RESOLVED: That the manufacturer has elected to combine engines from the kW < 19 power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the 8 ≤ kW < 19 power category in accordance with Section 1039.230(e) of the applicable California test procedures.

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 2nd day of August 2024.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: SKBXL719KCC EO Number: U-R-025-1158 Date Applicable: 7/18/2024

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
D722-D2-EF	D722-D2-EF01	N/A	I3	0.719	15.1	3600	15.2	40.1	3600	15.2	1	N/A	
Z482-D2-EF	Z482-D2-EF02	N/A	I2	0.479	9.8	3600	15.2	26	3600	15.2	1	N/A	
Z482-D2-EF	Z482-D2-EF05	N/A	I2	0.479	7.1	2600	14.3	26.1	2600	14.3	1	N/A	
Z482-D2-EF	Z482-D2-EF08	N/A	I2	0.479	6.5	2400	14	25.9	2400	14	1	N/A	
Z482-D2-EF	Z482-D2-EF01	N/A	I2	0.479	10.3	3600	15.4	27.3	3600	15.4	1	N/A	
Z482-D2-EF	Z482-D2-EF04	N/A	I2	0.479	9.1	3600	14.2	24.1	3600	14.2	1	N/A	
Z482-D2-EF	Z482-D2-EF07	N/A	I2	0.479	4.5	1800	13.6	23.9	1800	13.6	1	N/A	
Z482-D2-EF	Z482-D2-EF07e	N/A	I2	0.479	4.5	1800	13.6	23.9	1800	13.6	1	N/A	
Z482-D2-EF	Z482-D2-EF03	N/A	I2	0.479	9.5	3600	14.7	25.2	3600	14.7	1	N/A	
D722-D2-EF	D722-D2-EF03	N/A	I3	0.719	8.2	2000	13.8	39.2	2000	13.8	1	N/A	
Z482-D2-EF	Z482-D2-EF06	N/A	I2	0.479	8.2	3000	14.6	26.1	3000	14.6	1	N/A	