EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DCA6SPX4F



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

| Manufacturer: | KUBOTA | | | Bore: | 3.07 | in. | (78 mm) |
|--|--|--|---|---|--|--|----------------|
| | D1105 | | | Stroke: | 3.09 | in. | (78.4 mm) |
| | 4-Cycle, In-Line, 3-Cylinde | er. Diese | I | Displacemen | | | , |
| Aspiration: | Naturally Aspirated, Indire | , | | Compression | 24:1 | | |
| | | | | | | | |
| PERFORMA | NCE DATA | | | | | | |
| SAE Gross HP | @ 1800 RPM (60 Hz) Rat | ted 1 | 6.6 | | | | |
| Load Fuel Con | sumption (gal/Hr) Rated | 0 | .70 | | | | |
| Load Exhaust | Gas Flow (cfm) Rated Lo | bad 6 | 6 | | | | |
| | | | | | | | |
| Exhaust Gas T | emperature (°F) | 7 | 52 | | | | |
| Exhaust Gas T | emperature (°F) | 7 | 52 | | | | |
| | | | - | Limits - | | | 11 ≤ ~ < 25 BH |
| Uni | ted States EPA - M | obile C | Off-Highway Tier 4 | | | | |
| Uni Crite | ted States EPA - M ria Pollutant | obile C | Off-Highway Tier 4 | Certifi | ed Engi | | missions |
| Uni Crite NOx (Oxides o | ted States EPA - M ria Pollutant f Nitrogen as NO2) | obile C Emi | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr | Certifi N/A | ed Engi gr/b | hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) | obile C Emi N/A N/A | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr | Certifi N/A N/A | ed Engi gr/b gr/bl | hp-hr hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu NOx + HC (Cor | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) mbined) | obile C Emi | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr gr/bhp-hr | Certifi N/A N/A N/A | ed Engi gr/b gr/bl gr/bl | hp-hr hp-hr hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) mbined) onoxide) | Obile C Emi N/A N/A N/A | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr | Certifi N/A N/A | ed Engi gr/b gr/bl gr/bl gr/bl | hp-hr hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu NOx + HC (Cor CO (Carbon M PM (Particulate | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) mbined) onoxide) | Obile C Emi N/A N/A N/A 4.92 | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr | Certifi N/A N/A N/A 0.74 | ed Engi gr/b gr/bl gr/bl gr/bl gr/bl | hp-hr hp-hr hp-hr hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu NOx + HC (Cor CO (Carbon M PM (Particulate | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) mbined) onoxide) e Matter) | bbile C Emi N/A N/A N/A 4.92 0.29 | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr | Certifi N/A N/A N/A 0.74 0.11 | ed Engi gr/b gr/bl gr/bl gr/bl gr/bl gr/bl | hp-hr hp-hr hp-hr hp-hr hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu NOx + HC (Con CO (Carbon M PM (Particulate NMHC (Non-Me | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) mbined) onoxide) e Matter) ethane Hydrocarbons) | bbile C N/A N/A N/A 4.92 0.29 N/A | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr | Certifi N/A N/A N/A 0.74 0.11 N/A | ed Engi gr/b gr/bl gr/bl gr/bl gr/bl gr/bl | hp-hr hp-hr hp-hr hp-hr hp-hr hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu NOx + HC (Cor CO (Carbon M PM (Particulate NMHC (Non-Me NMHC + NOx EPA Engine Fa | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) mbined) onoxide) e Matter) ethane Hydrocarbons) | Obile C Emi N/A N/A N/A 4.92 0.29 N/A 5.59 BXL01.51 | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr | Certifi N/A N/A N/A 0.74 0.11 N/A | ed Engi gr/b gr/bl gr/bl gr/bl gr/bl gr/bl | hp-hr hp-hr hp-hr hp-hr hp-hr hp-hr | missions |
| Uni Crite NOx (Oxides o HC (Total Unbu NOx + HC (Cor CO (Carbon M PM (Particulate NMHC (Non-Me NMHC + NOx EPA Engine Fa | ted States EPA - M ria Pollutant f Nitrogen as NO2) urned Hydrocarbons) mbined) onoxide) e Matter) ethane Hydrocarbons) mily: PKI e of Conformance: PKI | Obile C Emi N/A N/A N/A 4.92 0.29 N/A 5.59 BXL01.51 | Dff-Highway Tier 4 ssion Requirements gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr | Certifi N/A N/A N/A 0.74 0.11 N/A | ed Engi gr/b gr/bl gr/bl gr/bl gr/bl gr/bl | hp-hr hp-hr hp-hr hp-hr hp-hr hp-hr | missions |

| Strong Protection | CERTIFICATE | IENTAL PROTECT DDEL YEAR OF CONFORMITY CLEAN AIR ACT | | OFFICE OF TRANS AND AIR QU ANN ARBOR, MICH | ALITY |
|---|---------------------------|---|------|--|---|
| Certificate Issued To: Kub (U.S. I Certificate Number: PKBX | Manufacturer or Importer) | Effective Date: 08/17/2022 Expiration Date: | m.J. | Br. | Issue Date: 08/17/2022 Revision Date: |
| | | 12/31/2023 | | r, Division Director | <u></u> <u>N/A</u> |

| Model Year: 2023 | Mobile/Stationary Indicator: Mobile |
|---|---|
| Manufacturer Type: Original Engine Manufacturer | Emissions Power Category: 8<=kW<19 |
| Engine Family: PKBXL01.5BCC | Fuel Type: Diesel |
| | After Treatment Devices: No After Treatment Devices Installed |
| | Non-after Treatment Devices: Engine Design Modification |

Compliance Division

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 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 Part 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 Part 1039 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 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 Part 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 Part 1039.

AL PROT

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 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) | | | | |
|---------------|-----------------------|--------------------------|-------------------------------|------------------------|--|--|--|--|
| 2023 | PKBXL01.5BCC | 1.124, 1.498 | Diesel | 3000 | | | | |
| SPECIAL | FEATURES & EMISSION C | CONTROL SYSTEMS | TYPICAL EQUIPMENT APPLICATION | | | | | |
| | Indirect Diesel Inje | oction | Generator Set, Light Tower, | Welder | | | | |

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 | nr) | | OF | PACITY (% | b) |
|-------------------------|----------------------|------------------|----------|-----|-----------------|-----|------|-------|-----------|------|
| | STANDARD CATEGORY | | NMHC NOx | | NMHC+NOx | со | РМ | ACCEL | LUG | PEAK |
| 8 ≤ kW < 19 | Tier 4 Final | Tier 4 Final STD | | N/A | 7.5 | 6.6 | 0.40 | N/A | N/A | N/A |
| | | CERT | | | 5.9 | 1.0 | 0.15 | | | |

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 on this 5th day of October 2022.

Polin U. Lang

Robin U. Lang, Chief Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-025-1058

 Family:
 PKBXL01.5BCC
 Attachment Last Revised:
 9/27/2022

| Model | Code | Trim | Config | Displacement | Displacement - Units | Peak Power | Peak Power - Units | Peak Power - Speed (rpm) | Peak Power - Fueling | Peak Power - Fuel Units | Peak Torque | Peak Torque - Units | Peak Torque - Speed (rpm) | Peak Torque - Fuel | Peak Torque - Fuel Units | OBD | GHG | Special | Notes |
|-------------|---------------|------|--------|--------------|-------------------------|------------|-----------------------|-----------------------------|-------------------------|----------------------------|-------------|------------------------|------------------------------|-----------------------|-----------------------------|-----|-----|---------|-------|
| | D1105-BG-EF01 | | 1-3 | 1.124 | Liters | 12.4 | kilowatt | 1800 | 23.6 | mm3/stroke | 65.8 | N-m | 1800 | 23.6 | mm3/stroke | N/A | N/A | N/A | N/A |
| √1505-BG-EF | V1505-BG-EF01 | | I-4 | 1.498 | Liters | 17.6 | kilowatt | 1800 | 25.0 | mm3/stroke | 93.4 | N-m | 1800 | 25.0 | mm3/stroke | N/A | N/A | N/A | N/A |
| V1505-BG-EF | V1505-BG-EF02 | | 1-4 | 1.498 | Liters | 16.2 | kilowatt | 1800 | 22.9 | mm3/stroke | 85.9 | N-m | 1800 | 22.9 | mm3/stroke | N/A | N/A | N/A | N/A |
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