

## INDUSTRIAL DIESEL ENGINE

### Kubota 03 Series (4-Cylinder)

# V2203-M-E3B



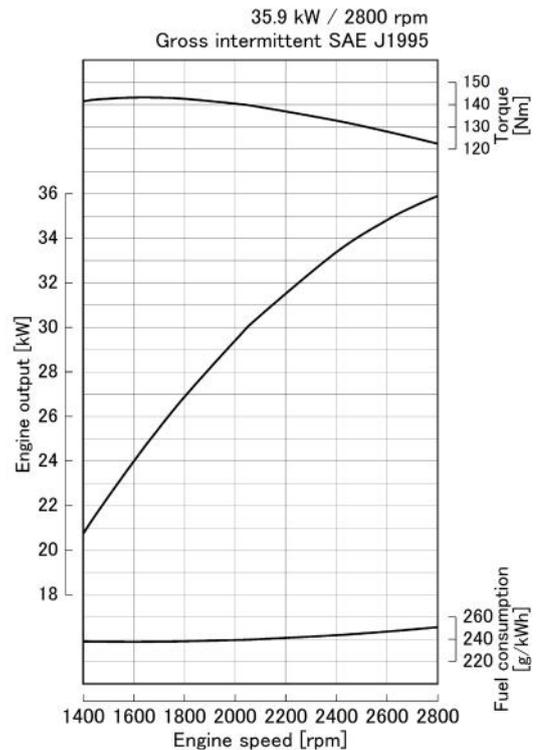
#### Rated Power

## 35.9 kW @ 2800 rpm



Photograph may show non-standard equipment.

#### Performance Curves



#### Features and Benefits

##### Emissions

The V2203-M engine complies with the EPA / CARB interim Tier 4 + EU Stage IIIA emissions regulations.

##### Durable Power

The Kubota 03-M Series is well known for its industrial applications. With numerous features such as a built-in solenoid, low fan position, and single-side serviceability, this engine provides excellent performance and flexibility.

The cooling water passages between the cylinder bores features Kubota's original casting technology as a countermeasure against the heat load caused by high power density, providing both superior endurance and reliable engine performance.

The V2203-M engine offers a seamless transition from EPA Tier 2 to interim Tier 4 by maintaining the same footprint and hardware mounting points with minimal performance changes from EPA Tier 2 engines.

##### Clean and Quiet Power

Kubota's original E-TVCS (Three Vortex Combustion System) has been improved. The airflow, combustion chamber, and piston recess have been optimized to provide lower particulate matter (PM) levels.

The half-float valve cover and MoS<sub>2</sub>-coated pistons reduce noise levels by 1.0-2.0 dBA compared to conventional diesel engines and decrease vibrations transmitted from the valve area.

##### Options

Kubota 03-M Series engines offer side power take-off (PTO) in response to the trend of the use of hydraulic control devices in industrial machines. A hydraulic pump can be installed at the two side PTO locations.

# V2203-M-E3B

## Engine Specifications

<b>Engine model</b>		V2203-M-E3B
<b>Emission regulation</b>		EPA/CARB interim Tier 4 level + EU Stage IIIA
<b>Type</b>		Vertical, water cooled 4-cycle diesel engine
<b>Cylinders</b>		4
<b>Bore and stroke</b>	mm (in)	87.0 x 92.4 (3.43 x 3.64)
<b>Displacement</b>	L (cu.in)	2.197 (134.1)
<b>Aspiration</b>		Naturally aspirated
<b>Aftertreatment</b>		-
<b>Rated output / speed</b> *1	kW (HP) / rpm	35.9 (48.1) / 2800
<b>Maximum torque / speed</b> *1	Nm (lb-ft) / rpm	143.2 (105.6) / 1600
<b>Combustion system</b>		Indirect injection
<b>Fuel system</b>		In-line pump
<b>Length x Width x Height</b> *2 (without aftertreatment unit)	mm (in)	642 x 495 x 679 (25.3 x 19.5 x 24.9)
<b>Length x Width x Height</b> *3 (with aftertreatment unit)	mm (in)	-
<b>Dry weight</b> *3	kg (lbs)	180 (397)

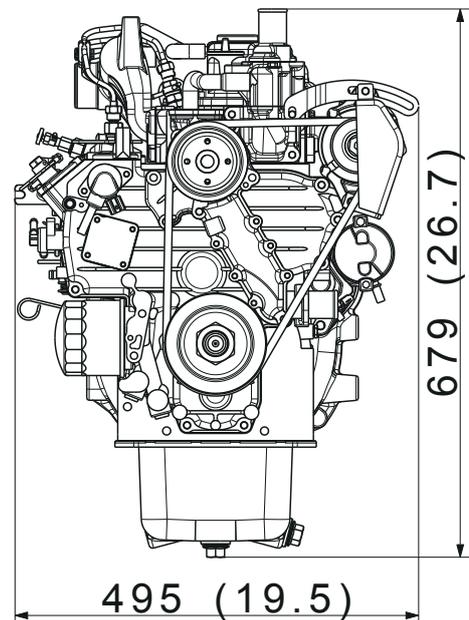
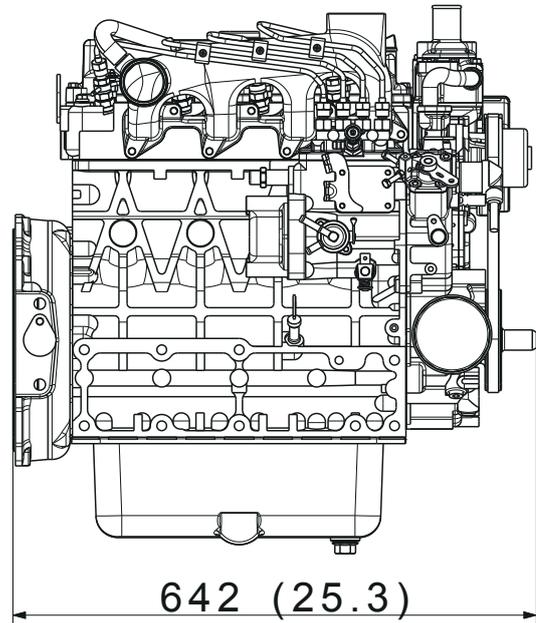
Specifications are subject to change without notice.  
Dimensions and dry weight are according to Kubota's standard specification.  
Dimensions and weight depend on completed specifications.

\*1: SAE J1995 gross intermittent

\*2: Exclude cooling fan and exclude aftertreatment unit

\*3: Exclude cooling fan and include aftertreatment unit on engine

## Dimensions



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ASP-V2203-M-E3B1808-R1-I