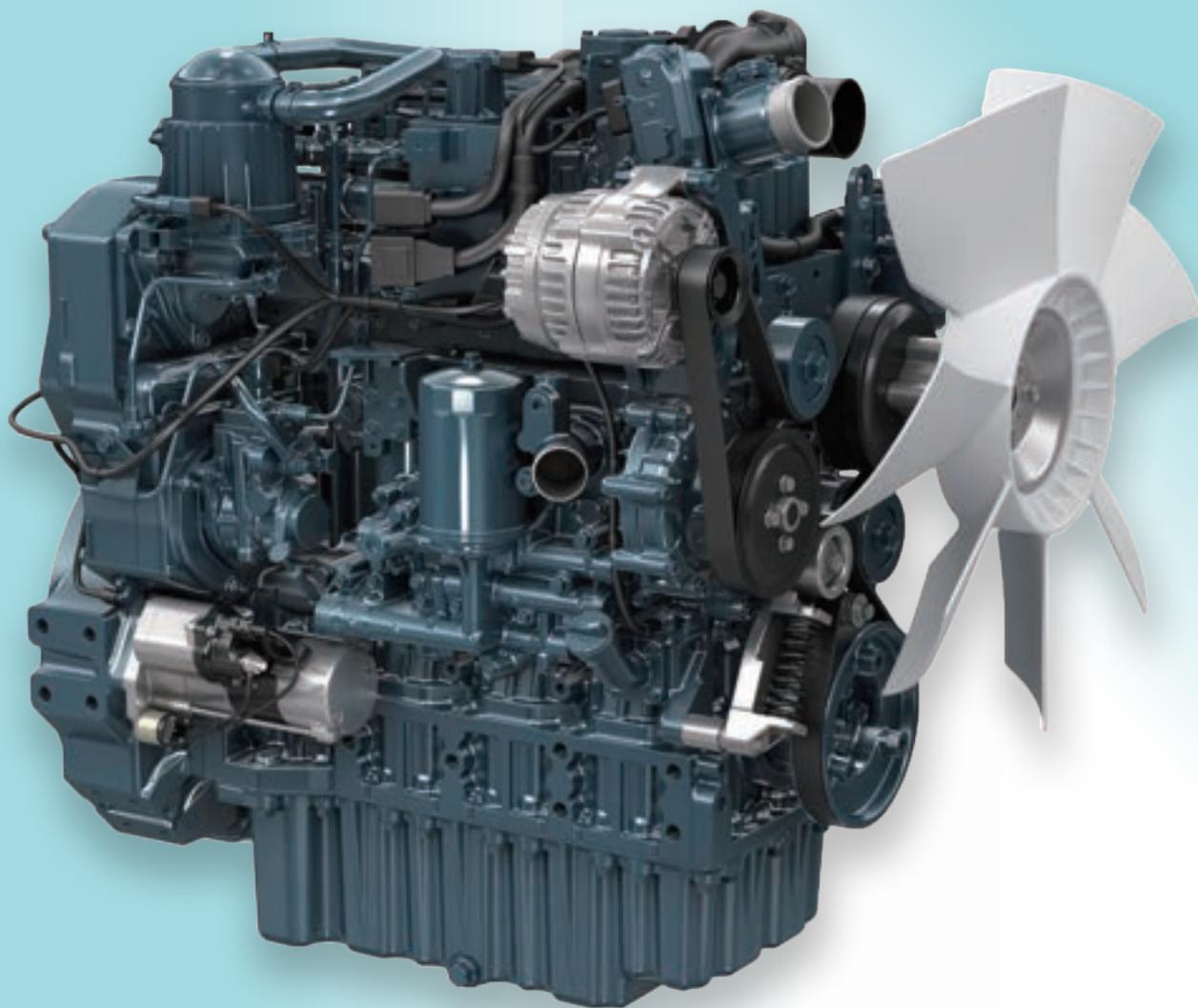


# V5009-TIE5B

KUBOTA 09 SERIES  
STANDARD ENGINES

Kubota Diesel Engines



For Earth, For Life  
**Kubota**

# V5009-TIE5B

Everything you demand from a Kubota engine. Let's break barriers together with Kubota's strong, reliable and technology-rich 09 Series engines.

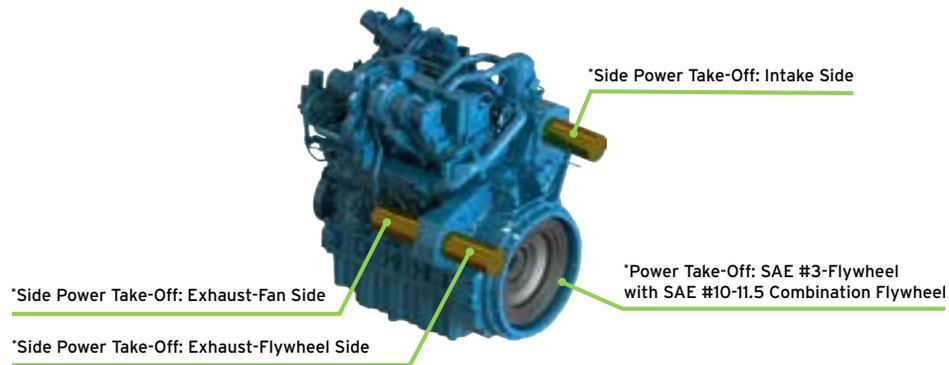
## Reduce emissions. Keep the performance.

The V5009-TIE5B is EPA Tier 4 and EU Stage V certified to meet challenging emission regulations with robust performance and efficiency. This compact and versatile 4-cylinder engine can be easily integrated into a wide range of applications. When right-sizing, you can replace your 6-cylinder engine with Kubota's compact V5009-TIE5B. This engine is perfectly suited for a wide range of applications for construction and industrial markets, including open and closed power units, horizontal drills, forestry and agricultural equipment, hydraulic excavators, air compressors and many more.



## Multiple PTO Locations

The V5009-TIE5B has 100% power availability at the front crankshaft pulley. It also has an SAE flywheel and housing with three side PTO locations for SAE A pad and B pad mounting of hydraulic pumps, compressors or other devices. Kubota offers various side PTO kit options to meet your requirements.



\*Gear ratio 1:1 and available in SAE A or B pad

## PTO Kit Options

Side Kit Description	PTO Load Rating
Intake Side: SAE A 9 Tooth	(34.6kW/150Nm/2200rpm)
Intake Side: SAE A 11 Tooth	(34.6kW/150Nm/2200rpm)
Exhaust-Fan Side: SAE A 9 Tooth; Exhaust-FW Side: SAE A 9 Tooth	(57.6kW/250Nm/2200rpm)
Exhaust-Fan Side: SAE A 11 Tooth; Exhaust-FW Side: SAE A 11 Tooth	(57.6kW/250Nm/2200rpm)
Exhaust-Fan Side: SAE B 13 Tooth; Exhaust-FW Side: SAE A 11 Tooth	(57.6kW/250Nm/2200rpm)

To inquire about other options contact your application engineer.

## Flexibility To Meet Your Needs

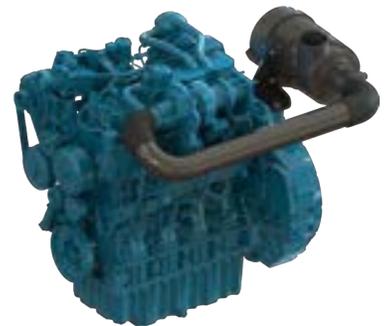
With its best-in-class fuel efficiency and responsive power, the V5009-TIE5B will bring your machine to life. The Kubota Engineering Team put the V5009-TIE5B through its paces to ensure the long life, reliability and startability you have come to expect. The Kubota aftertreatment system is remote mounted, so machine installation and packaging is based on your needs. The intake system offers flexible positioning options that make this suitable for a wide range of applications. For applications where the customer prefers engine-side air cleaner mounting, you can use Kubota's Fixed Intake Kit.



**Remote Mount Aftertreatment  
(DOC + DPF + SCR)**



**Intake Flexibility Options**



**Fixed Intake Kit**

		Engine Specifications	
<b>Engine model</b>		V5009-TIE5B (12V)	V5009-TIE5B (24V)
<b>Emission regulation</b>		EPA/CARB Tier 4 Final + EU Stage V	
<b>Type</b>		Verticle, Water Cooled 4-Cycle Diesel Engine	
<b>Cylinders</b>		4	
<b>Bore and stroke</b>	mm (in)	110.0 x 132.0 (4.331 x 5.197)	
<b>Displacement</b>	L (cu. in)	5.017 (306.2)	
<b>Aspiration</b>		Turbocharged + Turbo After Cooler	
<b>Aftertreatment</b>		Diesel Oxidation Catalyst (DOC) + Diesel Particulate Filter (DPF) + Selective Catalytic Reduction (SCR)	
<b>Flywheel</b>		SAE #10-#11.5 with pilot bearing provision Pilot Bearing meets SAE J620	
<b>Flywheel housing</b>		SAE #3 Normal (with intake + exhaust Side PTO provisions)	
<b>Rated output / speed</b> *1	kW (HP) / rpm	157.3 (210.9) / 2200	
<b>Maximum torque / speed</b> *1	Nm (lb-ft) / rpm	883.1 (651.3) / 1500 - 1600	
<b>Combustion system</b>		Direct Injection	
<b>Fuel system</b>		Common Rail System	
<b>Length x Width x Height</b> *2 (without aftertreatment unit)	mm (in)	889 x 693 x 967 (35.0 x 27.3 x 38.1)	
<b>Dry weight</b> *2	kg (lb)	625 (1377)	
<small>Specifications are subject to change without prior notice. Dimensions and dry weight are according to Kubota's standard specification. Dimensions and weight depend on completed specifications.</small>		<small>*1: Gross intermittent SAE J1995 *2: Exclude DPF muffler, SCR muffler and cooling fan</small>	

# V5009-TIE5B

## KUBOTA 09 SERIES STANDARD ENGINES

### Kubota Engineering Telematics System

Kubota's engine telematics system allows you to easily and accurately assess engine and aftertreatment conditions. Whether your equipment is in your facility or in a remote location, you will be able to obtain prompt and precise engine conditions during the development phase. For further information, contact your application engineer.

### Flexibility for Worldwide Markets

When working with customers in different countries, you need to comply with many different engine requirements, and flexibility is a must.

Kubota's V5009-TIE5B engine is EPA Tier 4 and EU Stage V certified. There is also an option to adopt a separate model with China IV certification or for less regulated countries (LRC). No matter what your requirements are, we have you covered.

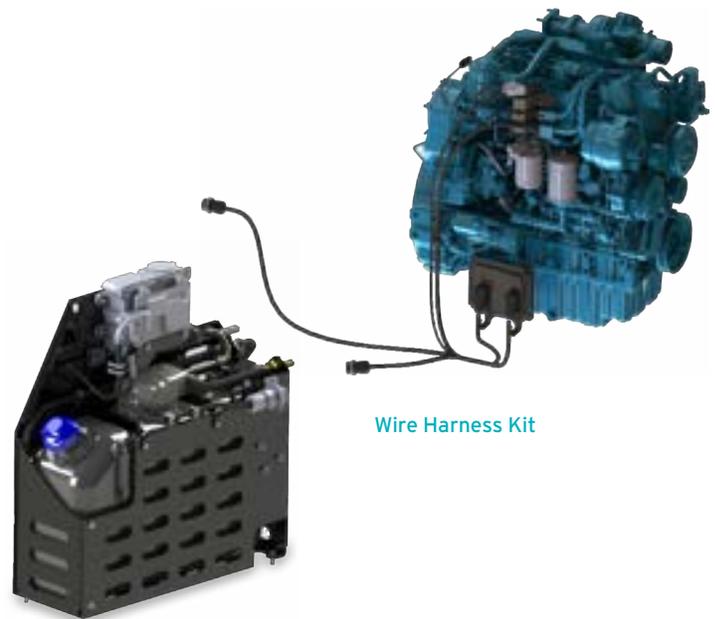
### Get the Most Out of Your Engine

Kubota strives to meet your needs with unrivaled experience and expertise in industrial engines. With a longer engine life, Kubota's 09 Series keeps your efficiency high and costs low. Ease your engine installation process by utilizing Kubota's factory-approved kits. With Kubota's wire harness kit and 40L DEF tank mounting kit, you can mount engine ECU, aftertreatment DOC + DPF + SCR, DEF tank and pump systems with flexibility for various configurations. Consult your Kubota application engineer for additional information.

### Global Emission Compliance

The V5009-TIE5B clean-sheet design brings an optimized high pressure fuel system and cylinder pressures. This design complements the low engine load and low coolant temperature diesel oxidation catalyst (DOC) and diesel particulate filter (DPF) regeneration strategy to operate its super clean running aftertreatment system. The long maintenance DPF with 6,000 hour ash cleaning is a clear winner for cost of ownership. With its seamless regeneration, your customer will not even know it's there.

The selective catalytic reduction system knocks out NO<sup>x</sup> (nitrogen oxides) to meet emission regulations for any highly regulated market. The V5009-TIE5B delivers the emission compliance and engine performance you demand from Kubota.



40L DEF Tank Kit  
(12V and 24V Kit)

Wire Harness Kit