

**EURO VI  
READY WHEN  
YOU ARE.**



**CUMMINS X12™**



# THE BEST OF ALL WORLDS.

Cummins is the undisputed global leader in high-performance diesel engines in on highway applications. For nearly two decades, the Cummins X Series platform has continually set new standards for power, productivity, low cost of operation and total value.

The new lightweight, high-output 12-litre X12 meets Euro VI standards. With impressive peak outputs of 490 hp and 1696 lb ft of torque, the X12 has the highest power-to-weight ratio of any engine in the 10-to-16-litre class. The innovative architecture of the X12 results in a remarkably low engine weight of 917 kg, achieved through a sculptured block design and the use of high-strength composite materials.

The X12 is Euro VI emissions compliant using selective catalytic reduction (SCR) technology with AdBlue®/DEF (Diesel Exhaust Fluid) dosing.

The use of a rear geartrain also contributes to overall engine refinement by reducing vibration and lowering noise. The X12 uses a standard wastegate turbocharger and also has an integrated engine brake that delivers the high retarding power that Cummins heavy-duty engines are renowned for. The engine's single cam in-head design with roller valve train and high efficiency intake ports continues the design theme of minimum complexity and maximum efficiency.

## MAINTENANCE INTERVALS.

DUTY CYCLE / OPERATION			
ITEM	SEVERE DUTY (TRUCK)	NORMAL DUTY (TRUCK)	LIGHT DUTY (TRUCK/COACH)
OIL DRAIN*	20,000 km	45,000 km	60,000 km
PREMIUM BLUE CES 20100	30,000 km	60,000 km	100,000 km
FUEL FILTER	30,000 km	Per oil drain interval	Per oil drain interval
DEF (ADBLUE®) FILTERS	30,000 km	Per oil drain interval	Per oil drain interval
OVERHEAD ADJUSTMENT	200,000 km	200,000 km	200,000 km
DPF **	>400,000 km*	>640,000 km*	>640,000 km*

\* Use of Valvoline Premium Blue enables an additional 10,000 km in severe and normal duty cycles. \*\* For Premium Blue users, the fuel filter interval matches the ODI.

\*\* Extended DPF intervals - Maintenance lamp will illuminate when DPF maintenance is needed. Cummins recommends replacing the DPF with a Genuine Cummins DPF at the time of ash maintenance interval.

# CUMMINS X12.

## FEATURES AND BENEFITS.

### Stronger power and torque for improved productivity and driveability:

- Up to 490 hp (483 kW) with a peak torque of 2,400 Nm (1,696lb-ft) available as low as 1,100 RPM
- Optimised power curve improves driver satisfaction requiring less gear changes, enabling low engine speed operation for improved fuel efficiency
- Excellent low speed torque enables fast acceleration and exceptional gradient climbing
- EGR-free design meeting Euro VI emission standards

### Higher efficiency to reduce operational costs:

- Single cam in head design with roller valve train and high-efficiency intake ports minimises complexity and maximises efficiency
- Programmable features like load based speed control and gear down protection serve to maximise fuel efficiency
- Patented cooling system, lube system and power cylinder are designed for improved efficiency
- Optimised combustion system and electronic calibrations enable heavy-duty performance without excessive injection pressure

### Advanced architecture ensures proven reliability:

- Sculptured block retains high rigidity while removing unnecessary mass
- Modular component architecture significantly reduces the number of parts
- Cummins XPI fuel system along with an optimised combustion system provide excellent cold start performance in extreme temperatures and high altitude
- Stiffer design through advanced component design and production techniques

### Extended maintenance intervals and easy serviceability lowers cost of ownership:

- Patented Fleetguard Stratapore oil filters that reach up to 100,000 km
- NanoNet™ fuel filtration provided unmatched protection for the engine's fuel system, removing particles as small as four microns
- Integrated design uses replaceable wet liners, enabling multiple overhauls

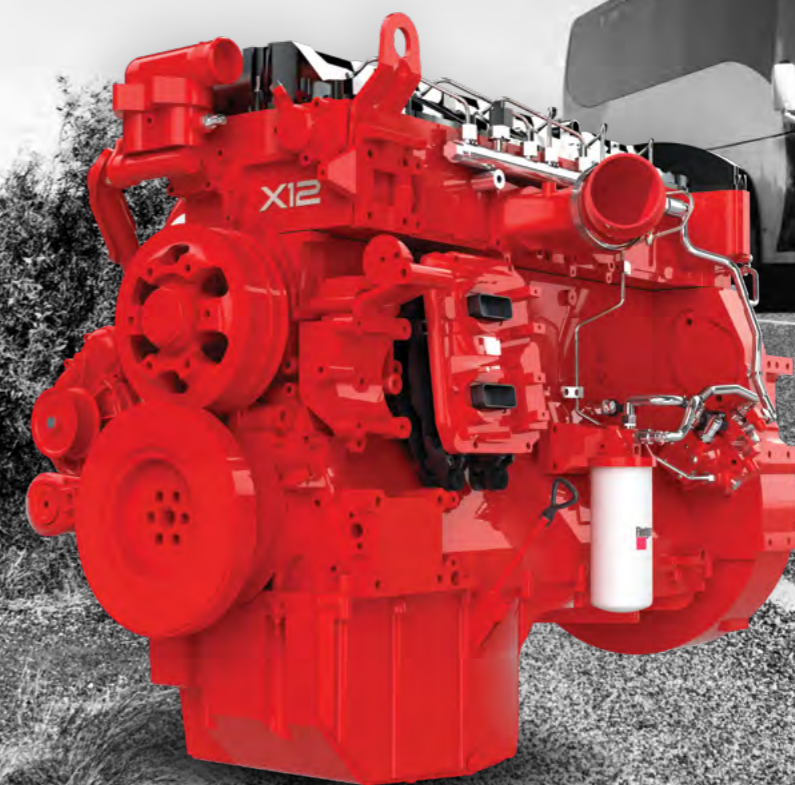
# TRUCK & COACH APPLICATIONS.

## X12 RATINGS.

ENGINE MODEL	PEAK TORQUE Nm (ft) @RPM	GOVERNED POWER kW (hp) @RPM
X12 360	1,900 (1401) @ 1,100	265 (355) @ 1,900
X12 380	2,000 (1475) @ 1,100	279 (374) @ 1,900
X12 410	2,100 (1549) @ 1,100	301 (404) @ 1,900
X12 440	2,200 (1623) @ 1,100	324 (434) @ 1,900
X12 470	2,300 (1696) @ 1,100	346 (464) @ 1,900
X12 490	2,400 (1696) @ 1,100	360 (483) @ 1,900

## X12 SPECIFICATIONS.

ADVERTISED HORSEPOWER	360-490 PS	@ 1,900
PEAK TORQUE	1,900-2,400 Nm	@ 1,100
GOVERNED SPEED	1,900 RPM	
NUMBER OF CYLINDERS	6	
ENGINE (DRY) WEIGHT	917 kg	



# CUMMINS BASE WARRANTY – CONFIDENCE IN WRITING.

**Truck** - Cummins base engine warranty is 2 years/402,336 km/6250 hours, whichever occurs first. Cummins will cover reasonable travel and towing costs when an engine is disabled by a warrantable failure. Extended major component warranty coverage is 5 years/804,672 km.

**Coach** - Cummins base engine warranty is 2 years, unlimited kilometres, or hours. Cummins will cover reasonable travel and towing costs when an engine is disabled by a warrantable failure. Extended major components warranty coverage is 3 years, 10,800 hours, or 482,805 kilometres.

During the base engine and the extended major components warranties, Cummins will pay for all parts and labour needed to repair the damage to the engine resulting from a warrantable failure.

Extended coverage (Warranty Plus) is also available.

Contact your local Cummins branch or authorised dealer for details.

## TRUST MAKES ALL THE DIFFERENCE.

Cummins Support Centre makes your workload easier by creating a seamless support experience. You can expect to get complete solutions while working with Cummins' unmatched service support network 24/7, 365 days a year.

Call 1300 CUMMINS (Australia) or 0800 CUMMINS (New Zealand), and you'll be assisted by fully trained Cummins specialists and technicians.



For Australia

**1300Cummins**

Ph 1300 286 646

For New Zealand

**0800Cummins**

Ph 0800 286 646



**Cummins Head Office**  
2 Caribbean Drive  
Scoresby VIC 3179  
Australia

Phone +61 3 9765 3222  
cummins.com.au

CPR1063 Produced in Australia 7/21  
©2021 Cummins South Pacific Pty Ltd.