

FIRE AND EMERGENCY VEHICLES

# Cummins engines for 2021

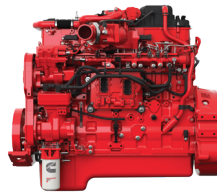


Cummins L9, X12 and X15 engines are providing reliability and performance improvements while meeting EPA 2021 and Greenhouse Gas Standards.

By optimizing current technology, Cummins is delivering greater performance, resulting in minimized impact for OEM installations, extended maintenance intervals and improved reliability to ensure that your Cummins engine is always on.

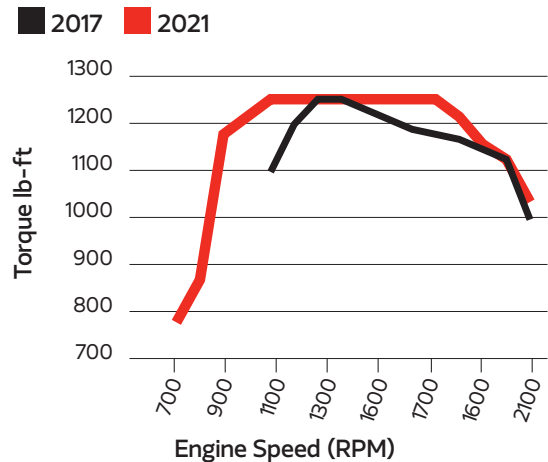


## L9 – IMPROVED RELIABILITY AND PERFORMANCE

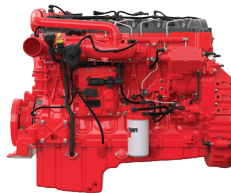


- Improved performance with peak torque over a wider RPM range
- Maintenance-free crankcase breather
- Increased oil drain intervals without increasing oil pan capacity
- Optional higher capacity oil pans for even longer oil drain intervals
- Maintained ratings of up to 450 hp and 1250 lb-ft of torque
- Improved reliability with higher temperature capability for head gasket and turbo actuator, oil pan rail sealing, air handling improvements and aftertreatment sensing technology improvements

## L9 EPA 2017 AND 2021 TORQUE CURVES

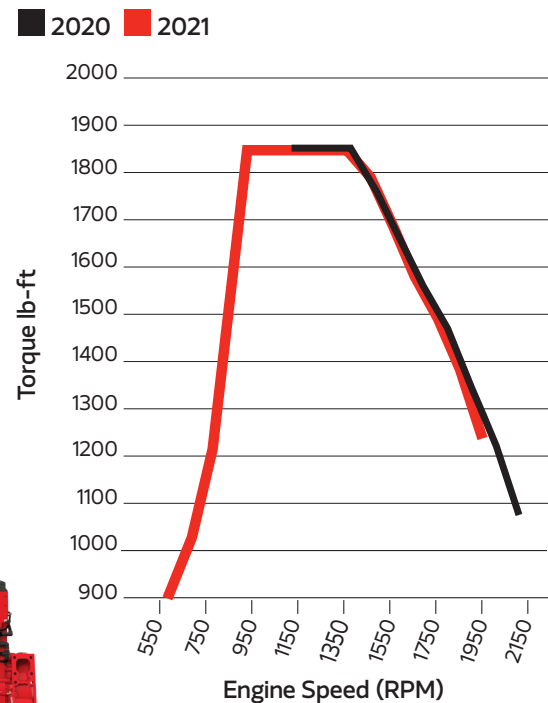


## X12 – LEADING POWER-TO-WEIGHT RATIO

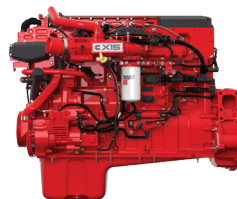


- Increased already class-leading filter change intervals
- Improved fuel economy
- Improvements to camshaft, crank seal and gear train to maximize uptime
- Maintained ratings of up to 500 hp and 1700 lb-ft of torque
- Optional air compressor resonator for reduced noise
- Maintained 400-600 lb weight savings from previous product

## X15 EPA 2020 AND 2021 TORQUE CURVES



## X15 – IMPROVED PERFORMANCE



- New 500 hp rating with 2000 RPM governed speed
- Reduced noise, especially at idle, with updated gear train
- Maintained best-in-class power with 605 hp
- Improved fault detection for greater engine protection
- Improved performance with peak torque over a wider operating range



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