

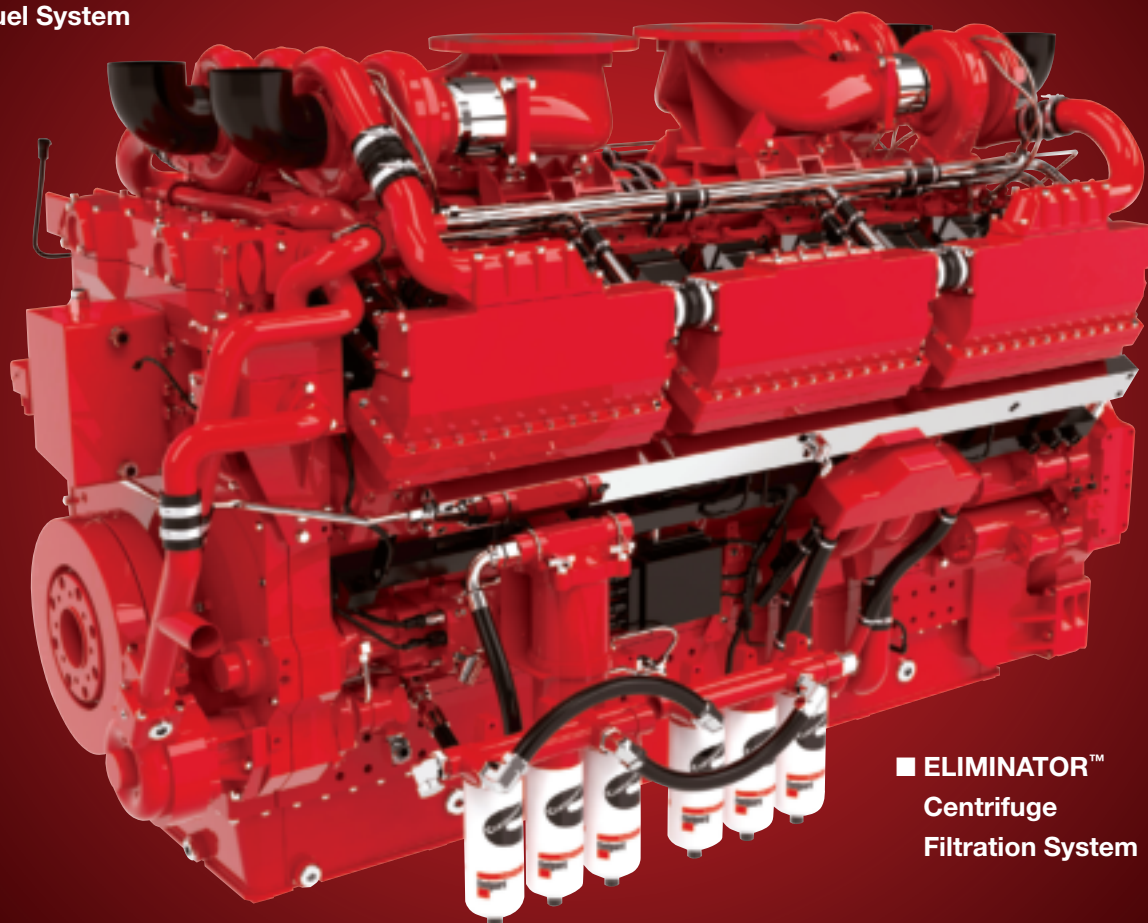


Better Train Of Thought.

Cummins QSK78.
For Locomotive Applications.

■ High-Pressure
Injection (HPI)
Fuel System

■ Single-Stage
Turbocharging



■ ELIMINATOR™
Centrifuge
Filtration System

■ Low-Temperature
Aftercooling

Durable Power. QSK78.

The QSK78 locomotive engine is part of the proven Quantum Series of engines from Cummins, with innovative technology that delivers outstanding reliability and durability, exceptional fuel economy, lower operating costs and a longer engine life-to-overhaul.

A high-pressure fuel injection system, high-strength components and a turbocharger designed for the QSK78 by Cummins Turbo Technologies are all integrated and optimized to produce 3300 hp (2461 kW) at 1800 rpm.

HPI Fuel System – Cummins high-horsepower QSK78 utilizes a high-pressure injection (HPI) fuel system for cleaner, more powerful combustion. Getting the most energy out of every drop of fuel helps to lower fuel consumption, resulting in exceptional fuel efficiency and reduced operating costs.

High-Durability Components – The QSK78 is designed to deliver a longer life-to-overhaul, with Ferrous Cast Ductile (FCD) iron pistons, a seven-bolt crossflow cylinder head and a large-diameter microfinished camshaft. Life-to-overhaul is estimated at 1.3 million gallons (4.9 million liters) of fuel burned, with no midlife overhaul required.

Quantum System Electronic Controls – Programmable features help optimize performance to specific duty cycles. Continuous engine monitoring allows for pre-emptive service scheduling, eliminating downtime and increasing productivity.

Single-Stage Turbocharging – The QSK78 uses a high-efficiency turbocharger designed and manufactured by Cummins Turbo Technologies specifically for locomotive engines.



Prelub System – The standard Prelub system eliminates dry starts, which further improves engine life.

CENTINEL™ and ELIMINATOR™ – Oil and oil filter changes are extended through the use of the CENTINEL Engine Oil Replenishment System along with the self-cleaning ELIMINATOR filter. Oil changes of up to 4,500 hours are possible with CENTINEL and an oil-sampling program, while ELIMINATOR'S two-stage full-flow and centrifugal system eliminates the need for disposable oil filters, reducing lube system maintenance costs significantly.

Unmatched Support – The QSK78 is backed by Cummins global network with over 600 authorized distributors around the globe. For more information, call Cummins Care at 1-800-DIESELS™ (1-800-343-7357).

QSK78 Specifications*

Advertised Horsepower	3300 hp	2461 kW
Governed Speed	1800 rpm	
Exhaust Emissions Emits At	EPA Tier 1	UICII
Displacement	4,735 cu in	78 liters
Bore and Stroke	6.69 in x 7.48 in	170 mm x 190 mm
Number of Cylinders	18	
Weight (Wet)	24,134 lb	10,947 kg
Length	116.6 in	2,961 mm
Width	63.1 in	1,603 mm
Height	73 in	1,854 mm

*Specification dependent



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