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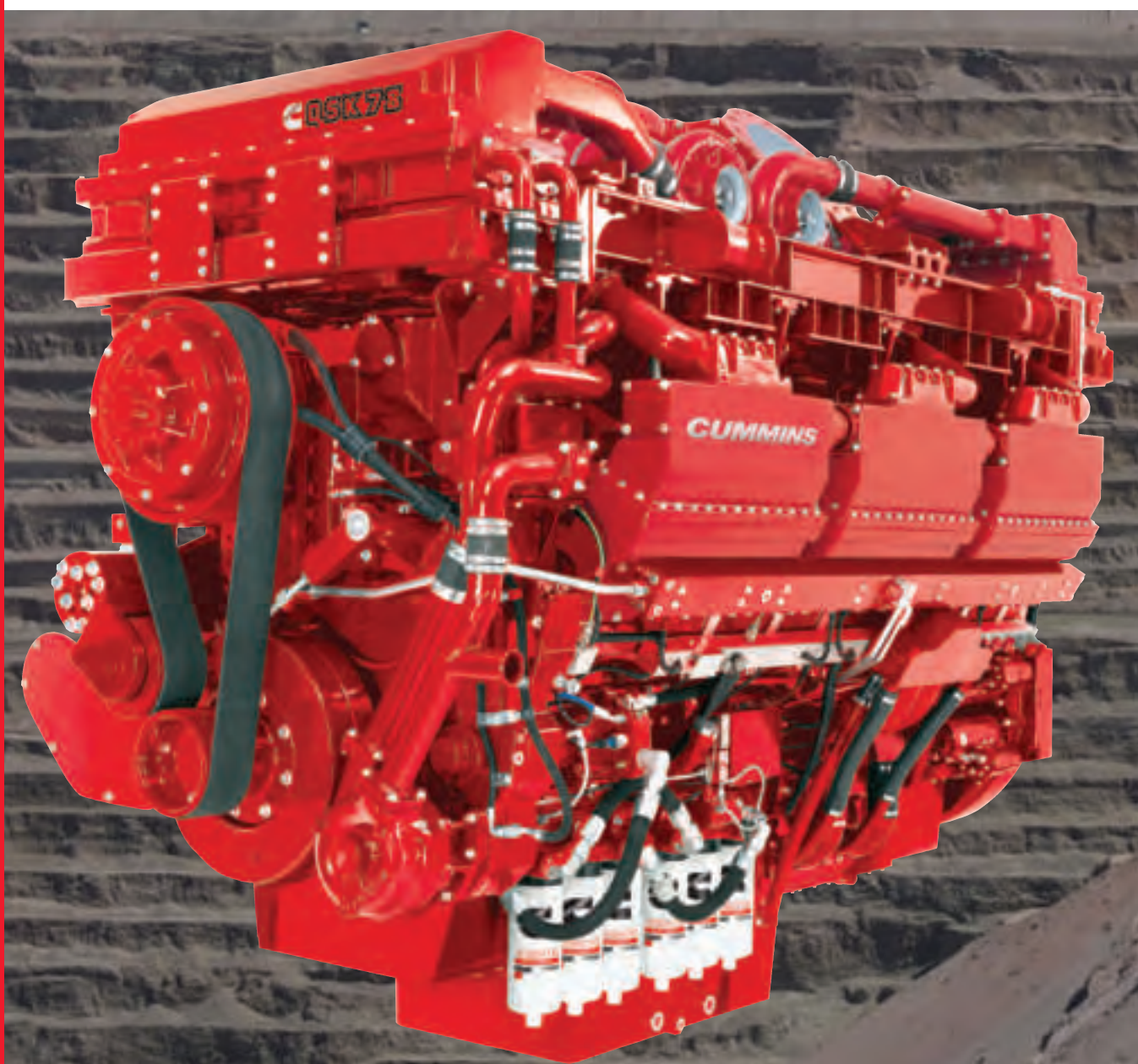
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# Ready For More. Every™ Ton.

QSK78 Engines For Mining Applications.



# QSK78.

## More Innovation.

Over the years, we've taken the proven QSK system design and developed an innovative package of upgraded components with stronger capabilities and a more robust design to achieve more productivity and reliability with the QSK78 – while simultaneously offering innovative technology solutions to meet emissions standards.

## More Robust Features.

- A forged high-strength tensile steel crankshaft with dual viscous dampers reduces gear train wear, and tungsten counterweights provide vibration damping for long engine and equipment life
- The High-Pressure Injection fuel system (HPI) provides optimum combustion for low emissions and better fuel economy
- The ELIMINATOR™ self-cleaning filtration system combines full-flow and bypass filters with an oil pressure-powered centrifuge; stainless steel filter screens trap particles as small as 20 microns while the centrifuge removes particles as small as 2 microns

## More Performance.

The bigger they are, the harder they haul. With a peak horsepower of 3500 hp (2610 kW) at 1900 rpm and peak torque in excess of 10,000 lb-ft (13,000 N•m), the Cummins QSK78 meets the power needs of the world's largest class of haul trucks.

Cummins QSK78 incorporates the best features of our QSK Series engines, including full-authority electronic controls to achieve exceptional combustion efficiency. Extended service intervals help eliminate downtime for routine maintenance. With optimized maintenance schedules and advanced combustion efficiency, the QSK78 delivers the lowest cost-per-ton of any engine in its class.

## Ratings

| ENGINE<br>MODEL* | ADVERTISED<br>HP (kW) @ RPM | PEAK TORQUE<br>LB-FT (N•M) @ RPM |
|------------------|-----------------------------|----------------------------------|
| QSK78 3500       | 3500 (2610) @ 1900          | 10,157 (13,771) @ 1500           |

\*Cummins customers can use Tier 2 engines in North America through 2017 by utilizing U.S. EPA's Transitional Program for Equipment Manufacturers. All QSK78 ratings are available for use in nonregulated regions where engines are not subject to certification.

## Specifications

|                     |  |                 |
|---------------------|--|-----------------|
| Engine Type         | 60° Vee 18-Cylinder                                    |                 |
| Aspiration          | Two-Stage Turbocharged,<br>Intercooled and Aftercooled |                 |
| Displacement        | 4,735 CU IN  | 77.6 LITERS     |
| Bore and Stroke     | 6.69 IN x 7.48 IN                                      | 170 MM x 190 MM |
| Oil System Capacity | 304 U.S. QT  | 288 LITERS      |
| Coolant Capacity    | 176 U.S. QT  | 166.6 LITERS    |
| Length              | 131 IN   | 3,327 MM        |
| Width               | 65.5 IN  | 1,663 MM        |
| Height              | 95.6 IN  | 2,429 MM        |
| Dry Weight          | 23,810 LB  | 10,800 KG       |
| Wet Weight          | 25,662 LB  | 11,640 KG       |

## More Confidence.

QSK78 engines are backed by the best warranty in the industry, with full coverage for unlimited hours the first year, extending through 2 years or 2,000 hours, whichever comes first. Major-components coverage continues through the third year or 10,000 hours. Extended protection plans are available.

## More Support. Every Customer.

Cummins QSK78 engines are backed by the world's largest and most capable parts and service network, with over 600 authorized distributors around the globe. For more information, call 1-800-DIESELS™ (1-800-343-7357) or go to [cumminsengines.com](http://cumminsengines.com).



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