



# EVERY TON.<sup>TM</sup>

# QSK19



**EMISSIONS-CERTIFIED ENGINES  
FOR MINING APPLICATIONS**

# FOR MINING APPLICATIONS.

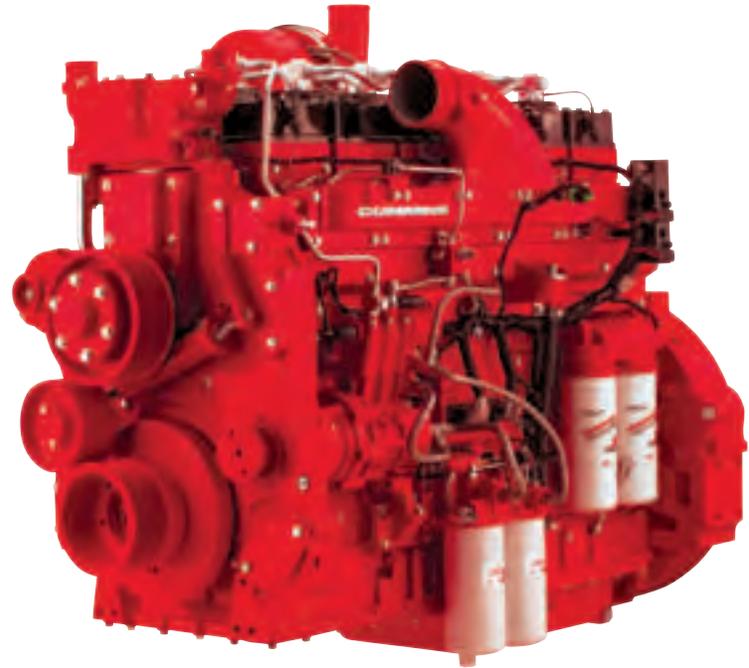
## QSK19

### Performance.

The QSK19 delivers the lowest life cycle cost with the longest life-to-overhaul of any engine in its class. Cummins Modular Common Rail (MCR) fuel system maintains a constant injection pressure at all speeds – realizing greater flexibility and precision in controlling both injection rates and timing. Multiple injection events during each power stroke yield smoother, more consistent power at every rpm. The QSK19 with MCR features significantly reduced emissions and engine vibration, resulting in a safer and more comfortable work environment. Advanced electronic controls enable cold starts down to -5°F (-20°C) without starting aids. The durability of the base engine is well-proven, with thousands of QSK19 engines in haul trucks, excavators, drills and wheel loaders delivering superior uptime around the world – above ground and below.

### Cummins QSK19 For Emissions-Regulated Mining Applications.

QSK19 engines have been redesigned to meet legislated emissions levels for both U.S. and European regulations. Advanced in-cylinder combustion technology combined with the Modular Common Rail fuel system allows the QSK19 to meet low-emissions standards without compromise.



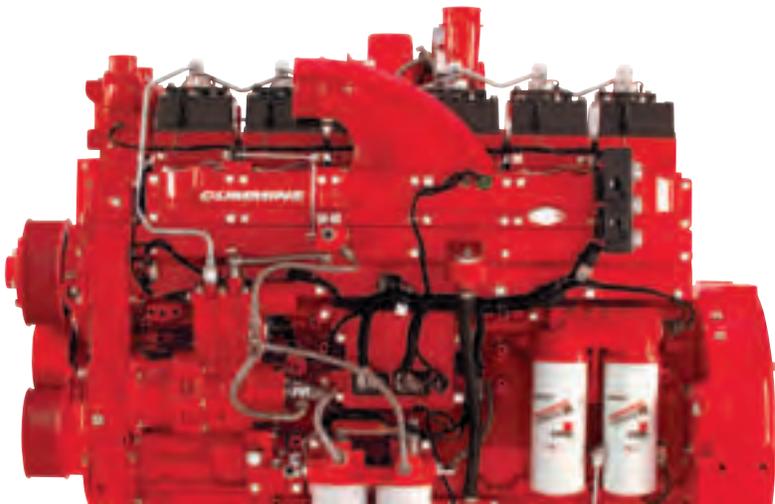
### Ratings

ENGINE MODEL	ADVERTISED HP (KW) @ RPM	PEAK TORQUE LB-FT (N•M) @ RPM	RATING TYPE
QSK19 800	800 (597) @ 2100	2275 (3084) @ 1500	RESTRICTED
QSK19 760	760 (567) @ 2100	2275 (3084) @ 1500	INTERMITTENT
QSK19 755	755 (563) @ 1800	2275 (3084) @ 1400	INTERMITTENT
QSK19 700*	700 (522) @ 2000	2200 (2981) @ 1500	INTERMITTENT
QSK19 700*	700 (522) @ 1800	2200 (2981) @ 1400	INTERMITTENT
QSK19 675*	675 (503) @ 1800	2200 (2981) @ 1400	INTERMITTENT
QSK19 560*	560 (418) @ 2000	1775 (2407) @ 1500	INTERMITTENT
QSK19 525*	525 (391) @ 2000	1775 (2407) @ 1500	INTERMITTENT

\*Tier 3/Stage IIIA certified rating, all other ratings are Tier 2 certified. Additional ratings may be available. Check with your Cummins distributor or dealer.

### Specifications

ENGINE TYPE	INLINE 6-CYLINDER	
ASPIRATION	TURBOCHARGED AND CHARGE AIR COOLED	
DISPLACEMENT	1159 CU IN	19 LITERS
BORE AND STROKE	6.25 IN X 6.25 IN	159 MM X 159 MM
OIL SYSTEM CAPACITY	80 U.S. QT	76 LITERS
COOLANT CAPACITY	44 U.S. QT	41.6 LITERS
LENGTH	66.1 IN	1679 MM
WIDTH	34.3 IN	872 MM
HEIGHT	63.6 IN	1616 MM
DRY WEIGHT	4,105 LB	1,862 KG
WET WEIGHT	4,534 LB	2,057 KG



## Features And Benefits.

- Broad power range, compact size and natural balance allow for application in all industrial markets.
- Advanced Modular Common Rail (MCR) fuel injection system generates clean, quiet and efficient power.
- State-of-the-art combustion control system features enhanced electronics integrated with upgraded sensors and a powerful new Electronic Control Module (ECM) for peak engine performance at all altitudes and under every load condition.
- High-efficiency turbochargers from Cummins Turbo Technologies feature a turbo speed sensor, watercooled bearing housings and better airflow for maximum power and long life.
- Ferrous Cast Ductile (FCD) iron pistons provide increased strength and durability to handle increased cylinder pressures for longer life-to-overhaul.
- Piston-cooling nozzles deliver a cooling stream of oil beneath each piston crown and bowl rim for long life with increased reliability.
- Revised combustion bowl geometry allows the QSK19 to reach certified emissions levels in-cylinder, eliminating the need for aftertreatment.
- Two-stage Cummins oil filters, also available as Fleetguard®, combine full-flow and bypass filtration to effectively remove harmful sludge and up to three times as many contaminants to reduce engine wear.
- Prelub system distributes oil to rifles and friction surfaces before cranking can occur, greatly extending life-to-rebuild.
- Longer service intervals are achieved with optional CentriGuard™ centrifuge filters and the CENTINEL™ continuous oil replacement system.

## A Name You Can Trust. Every Time. Everywhere.



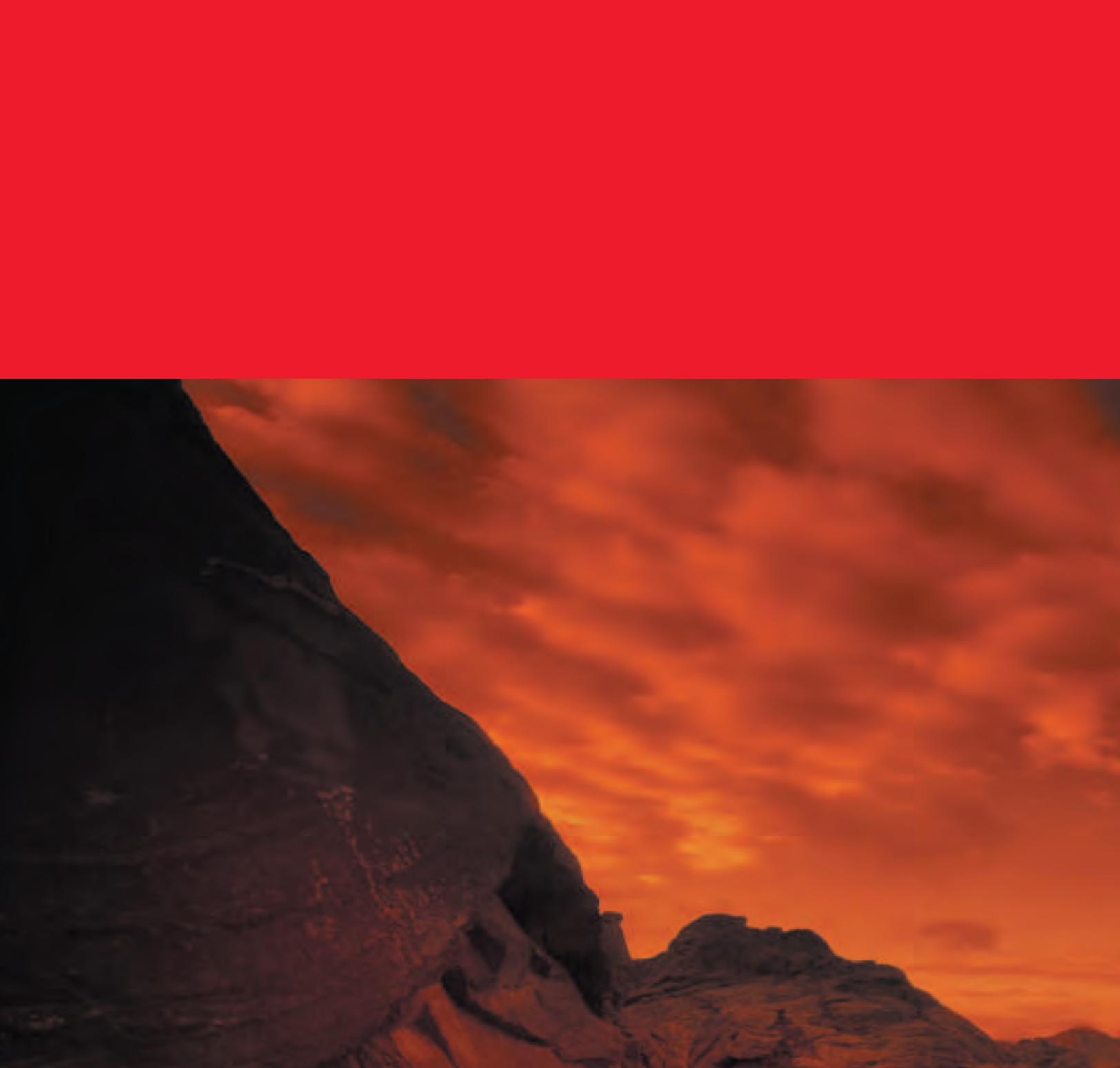
The Cummins organization has a vast amount of knowledge in mine operation. We are ready to assist you with experienced and dedicated local mining

business leaders and high-horsepower-engine technical support – fully backed by the strength of Cummins industry-leading technology and total support of top management. When you buy a piece of equipment with a Cummins QSK19, you get more than just an engine. You get:

- Full life cycle support, with proven engineering expertise from engine commissioning through final overhaul.
- Immediate parts and service availability.
- An established worldwide network with over 500 distributor facilities in over 160 countries, dedicated and empowered to service your needs. Every hour, every day.
- The best warranty in the business, which includes full coverage for unlimited hours during the first year, extending through two years or 2,000 hours (whichever comes first). The base warranty also includes 3-year/10,000-hour standard protection on major components. Extended warranties are available as well.

With the strength of Cummins at your side, your mine can process more material with increased uptime and greater productivity at a low cost per ton. Most important, our worldwide presence and comprehensive support make Cummins a proven, committed mining partner you can always depend on.

For more about the proven advantages of Cummins QSK19 and all our advanced technology for mining applications, see your local Cummins distributor.



**Cummins Inc.**  
Box 3005  
Columbus, IN 47202-3005  
U.S.A.

Phone: 1-800-DIESELS (1-800-343-7357)  
Fax: 1-800-232-6393  
Internet: [everytime.cummins.com](http://everytime.cummins.com)

**Cummins Ltd**  
**UK**

Phone: +44 (0) 1327 886464  
Fax: +44 (0) 870 2413180

For other countries, see [everytime.cummins.com/customercenter](http://everytime.cummins.com/customercenter)

Bulletin 4087131 Printed in U.S.A. 3/08  
©2008 Cummins Inc.