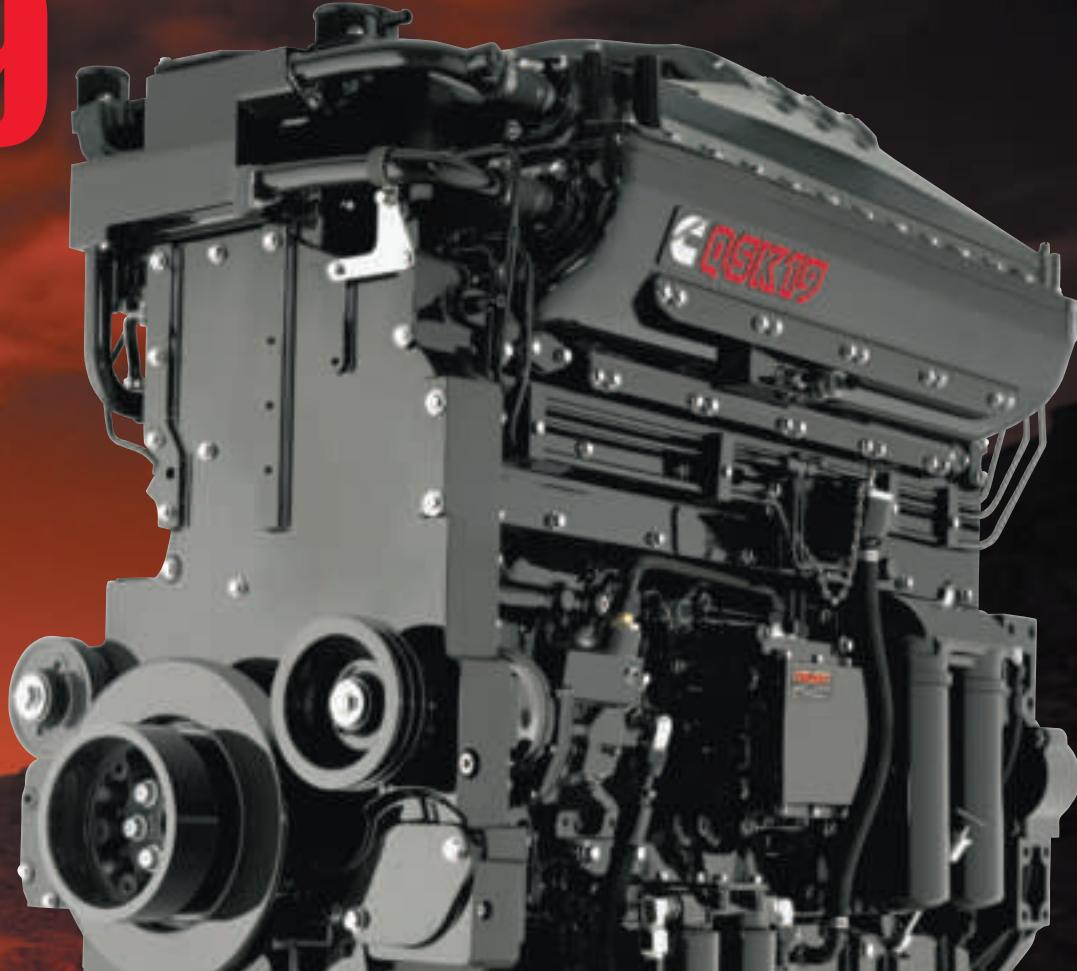




# EVERY<sup>TM</sup> TON. QSK19



**NON-CERTIFIED ENGINES  
FOR MINING APPLICATIONS**

# FOR MINING APPLICATIONS.

## Q S K 1 9

### Performance.

The QSK19 delivers the lowest life cycle cost with the longest life-to-overhaul of any engine in its class. Thousands of K19 and QSK19 engines in mining haul truck, excavator, blast hole drill and wheel loader applications have been delivering superior uptime around the world, above ground and below, for decades. Cummins state-of-the-art electronic controls are combined with our robust high-pressure fuel injection system to ensure better utilization of fuel for reduced emissions and greater power output. Electronic engine protection helps to maximize productivity and equipment uptime.

### Features And Benefits.

- Broad power range, compact size and natural balance allow for application in every mining installation.
- High-pressure injection (HPI) fuel system provides a high-peak injection pressure for optimum combustion for lower emissions and great fuel economy. Other benefits include excellent cold-starting characteristics and improved transient response at all engine speeds.
- The CM500 Electronic Control Module (ECM) allows for a broad range in combustion timing to accommodate every engine load. Programmable features include variable speed governing, low and high idle control, variable droop, torque curve shaping and more.
- A large-diameter camshaft with microfinished surfaces supports high injection pressures with excellent wear properties.
- The extra-wide gear train is quiet, long-lasting and handles high loads and injector pressures with ease.

### Ratings

ENGINE MODEL	ADVERTISED HP (kW) @ RPM	PEAK TORQUE LB·FT (N·m) @ RPM	RATING TYPE
QSK19 800	800 (597) @ 2100	2275 (3084) @ 1300	RESTRICTED
QSK19 775	775 (578) @ 1800	2275 (3084) @ 1300	RESTRICTED
QSK19 760	760 (567) @ 2100	2275 (3084) @ 1300	INTERMITTENT
QSK19 755	755 (563) @ 1800	2275 (3084) @ 1200	INTERMITTENT
QSK19 750	750 (559) @ 2100	2275 (3084) @ 1300	INTERMITTENT
QSK19 700	700 (522) @ 2100	2300 (3118) @ 1500	INTERMITTENT
QSK19 700	700 (522) @ 2000	2275 (3084) @ 1200	INTERMITTENT
QSK19 700	700 (522) @ 1800	2275 (3084) @ 1300	INTERMITTENT
QSK19 675	675 (503) @ 2100	2275 (3084) @ 1300	INTERMITTENT
QSK19 675	675 (503) @ 1800	2275 (3084) @ 1300	INTERMITTENT
QSK19 650	650 (485) @ 2100	2300 (3118) @ 1500	INTERMITTENT
QSK19 640	640 (477) @ 1800	1950 (2644) @ 1200	INTERMITTENT
QSK19 635	635 (474) @ 2100	1747 (2369) @ 1500	INTERMITTENT
QSK19 600	600 (447) @ 2100	1950 (2644) @ 1300	INTERMITTENT
QSK19 600	600 (447) @ 1800	1950 (2644) @ 1300	CONTINUOUS
QSK19 550	550 (410) @ 1800	1820 (2468) @ 1100	CONTINUOUS
QSK19 545	545 (406) @ 2100	1650 (2237) @ 1300	INTERMITTENT
QSK19 530	530 (395) @ 2000	1627 (2206) @ 1300	INTERMITTENT
QSK19 525	525 (391) @ 2100	1775 (2407) @ 1300	INTERMITTENT
QSK19 525	525 (391) @ 1800	1775 (2407) @ 1300	INTERMITTENT
QSK19 510	510 (380) @ 1800	1650 (2237) @ 1300	CONTINUOUS
QSK19 500	500 (373) @ 1800	1775 (2407) @ 1100	INTERMITTENT
QSK19 480	480 (358) @ 1800	1570 (2129) @ 1000	INTERMITTENT
QSK19 480	480 (358) @ 1800	1650 (2237) @ 1200	CONTINUOUS
QSK19 450	450 (336) @ 2100	1350 (1830) @ 800	INTERMITTENT
QSK19 450	450 (336) @ 1800	1650 (2237) @ 1100	CONTINUOUS

Additional ratings may be available. These engines emit at either former Tier 1 or Tier 2 levels. Check with your Cummins distributor or dealer for complete details.

### Specifications

ENGINE TYPE	INLINE 6-CYLINDER	
ASPIRATION	TURBOCHARGED AND AFTERCOOLED	
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	4,170 LB	1,890 KG
WET WEIGHT	4,600 LB	2,085 KG

- Jacket-water aftercooling with a one-pump, one-loop system is standard on the QSK19, providing simple and cost-effective intake air temperature regulation. Optional one-pump, two-loop or charge air cooling (CAC) systems are available to provide more efficient low-temperature aftercooling for performance and durability in higher-horsepower and high-temperature applications.
- Most QSK19s use a single Holset® HX82 turbocharger by Cummins Turbo Technologies with watercooled bearing housings for better temperature regulation, precise airflow and longer life than previous models. On higher-horsepower ratings with CAC, an HX83 turbocharger with advanced titanium impellers is used for increased durability.
- One-piece ferrous cast ductile iron pistons provide superior strength and durability to handle high cylinder pressures for longer life-to-overhaul. Advanced piston combustion bowl geometry allows for a clean and more efficient fuel burn.
- Piston-cooling nozzles provide a cooling stream of oil beneath each piston for long life and outstanding reliability.
- Oil filtration is handled by twin Cummins spin-on LF3000 filters, also available as Fleetguard®. An optional two-stage oil filter system combines full-flow and bypass filtration to effectively remove harmful sludge and up to three times as many contaminants to reduce engine wear.
- Standard on mining engines, the proven Prelub system distributes lubrication to engine oil 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.



Cummins possesses a vast amount of knowledge in mine operations. 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 nearly 190 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.



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