



Every™ Resource.

Oil And Gas Global Product Guide.



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Cummins Oil And Gas

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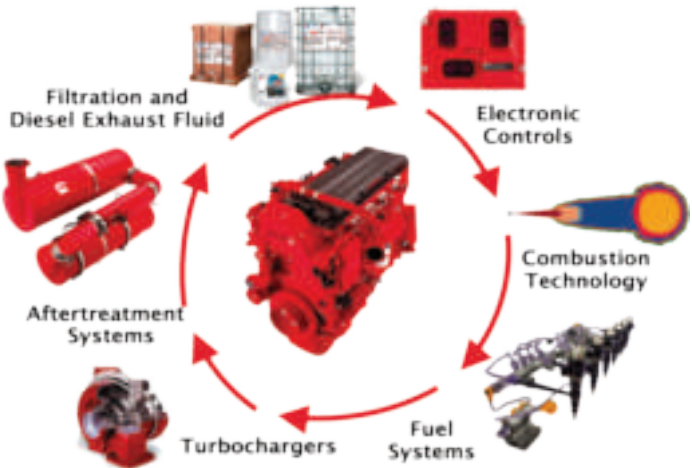
Cummins Oil And Gas Overview.

Cummins is committed to meeting the needs of oil and gas customers worldwide, no matter how broad the scope of your oil and gas business. If you are drilling, producing or servicing, we have the power, filtration, emissions technology, parts and service support to meet your every need.

Cummins delivers the toughest and most dependable four-cycle diesel and natural gas power in the world, including mechanically and electronically controlled emissions-compliant diesel engine platforms from 2.8 liters to 78 liters, and natural gas engines from 5.9 liters to 91 liters.

DIESEL	2.8L - 78L
NATURAL GAS	5.9L - 91L
LITERS	0 20 40 60 80 100

Cummins is the only engine manufacturer to design and develop, manufacture and support every component from the air intake to the exhaust aftertreatment in a totally integrated system. This allows us to optimize critical systems to deliver the right technology to our customers in a way that other engine manufacturers using outside suppliers simply can't match.



Drilling.

Cummins delivers the complete package of products, services and support to meet all your drilling equipment needs. From loose engines and power units for mechanical rig power to land and offshore drilling power modules, you won't find a stronger, more dependable product lineup. We offer engines ranging from 185 hp to 2700 hp to power your customized drilling, hoisting and pumping applications, developed with Cummins-manufactured alternators, turbochargers, filtration and emission solutions components.

Mechanical Drilling Engines

ENGINE MODEL	RATING (BHP) ⁽¹⁾	RATING (kW) ⁽¹⁾	CONFIG.	DISPLACEMENT (L)
QSX11.9	320-500	239-373	I-6	11.9
QSX15	400-600	298-448	I-6	14.9
QSK19	506-800	377-597	I-6	19
QSK23	760-950	567-709	I-6	23
QST30	850-1500	634-1119	V-12	30.5
QSK38	920-1260	686-939	V-12	37.8
QSK50	1350-2500	1007-1865	V-16	50.3
QSK60	1782-3000	1329-2237	V-16	60

Land-Based Oilfield Generator Sets

ENGINE MODEL	RATING (BHP) ⁽¹⁾	RATING (kWe) ^(2,3)	SPEED (RPM)	FREQUENCY (Hz)
QSX15	454-620	322-439	1500/1800	50/60
QSK19	715-815	507-578	1500/1800	50/60

Land-Based Drilling Power Modules

ENGINE MODEL	RATING (BHP) ⁽¹⁾	RATING (kWe) ^(2,3)	SPEED (RPM)	FREQUENCY (Hz)
QSK23	770-1085	546-769	1500/1800	50/60
QST30	850-1350	602-957	1500/1800	50/60
QSK38	1034	772	1200	60
KTA50	1470	1096	1200	60
KTA50	1750	1306	1500	50
QSK50	1480	1104	1200	60

Offshore Emergency Generator Sets

ENGINE MODEL	RATING (BHP) ⁽¹⁾	RATING (kWe) ^(2,3)	SPEED (RPM)	FREQUENCY (Hz)
6B-CS	X	74-92	1500/1800	50/60
6C-CS	X	136-152	1500/1800	50/60

Offshore Drilling Power Modules

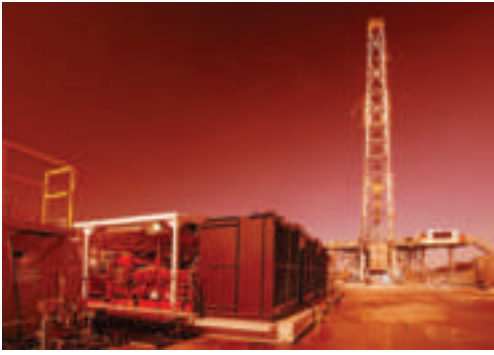
ENGINE MODEL	RATING (BHP) ⁽¹⁾	RATING (kWe) ^(2,3)	SPEED (RPM)	FREQUENCY (Hz)
QSK60-DR	1855	1327	1200	60
QSK60-DR	2095	1563	1500	50
QSK60-DR	2547	1900	1800	60

(1) Other ratings may be available. Some ratings may be restricted and require approval for use. Please contact your distributor.

(2) Prime power ratings with 10% overload. This power rating conforms to ISO 8528 guidelines.

(3) kWe reflects the approximate amount of electrical power available when used in genset configuration. Some ratings may be preliminary. Please contact your distributor.

(4) Wet weight with standard features. May vary based on selected configuration.



WEIGHT⁽⁴⁾		EMISSIONS^(5,6)	AFTERTREATMENT
(LB)	(KG)		
2,798	1,269	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit™ Diesel Particulate Filter
3,166	1,436	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit Diesel Particulate Filter
4,535	2,057	U.S. EPA Tier 4(i)	-
6,001	2,722	U.S. EPA Tier 4(i)	-
7,337	3,328	U.S. EPA Tier 4(i)	-
9,039	4,100	U.S. EPA Tier 4(i)	-
12,566	5,700	U.S. EPA Tier 4(i)	-
21,206	9,619	U.S. EPA Tier 4(i)	-

VOLTAGE (V)	EMISSIONS^(5,6)	AFTERTREATMENT
400/480	U.S. EPA Tier 4(i)	-
400/480	U.S. EPA Tier 4(i)	-

VOLTAGE (V)	EMISSIONS^(5,6)	AFTERTREATMENT
380/600	U.S. EPA Tier 4(i)	-
380/600	U.S. EPA Tier 4(i)	-
600/690	U.S. EPA Tier 4(i)	-
600/690	Noncertified	-
600/690	Noncertified	-
600/690	U.S. EPA Tier 4(i)	-

VOLTAGE (V)	EMISSIONS⁽⁷⁾	AFTERTREATMENT
380-480	Noncertified	-
380-480	IMO 1	-

VOLTAGE (V)	EMISSIONS	AFTERTREATMENT
600/690	IMO Tier 2	
600/690	IMO Tier 2	-
600/690	IMO Tier 2	-

(5) Noncertified ratings are also available. Please contact your distributor.

(6) Engines >751 hp will comply with EPA Nonroad Tier 4 Interim requirements using Transitional Program for Equipment Manufacturers (TPEM). No European emissions regulations for engines >751 hp.

(7) Emergency gensets are exempt from IMO emissions legislation. Engines <130 kW do not require IMO certification.

Gas Compression.

Whether you are gathering at the wellhead, boosting pressure for pipeline transmission or operating a compressed natural gas (CNG) refueling station, you need a reliable power source for your compression package – one that keeps production up and maintenance costs down.

Every Cummins natural gas engine is built on the same base engine components used in Cummins diesel engines, including the block, crankshaft, connecting rods and power cylinder components. These components deliver exceptional durability, even in the harshest compression applications.

Cummins is the supplier of U.S. Environmental Protection Agency (EPA)-certified New Source Performance Standards (NSPS) spark-ignition engines with our complete solution for emissions requirements, including lean-burn and rich-burn systems with our EcoFit™ Three-Way Catalyst developed by Cummins Emission Solutions.



Gas Compression Ratings

GROSS HORSEPOWER (kW) w/o FAN

ENGINE MODEL	C/R	CONTINUOUS RATING HP (kW) @ RPM			
		1200	1500	1800	2200
G5.9 (3,5)	10.5:1	–	41 (31)	49 (37)	60 (45)
	10.5:1	–	70 (52)	84 (63)	99 (74)
G5.9E (2,5)	10.5:1	–	70 (52)	84 (63)	99 (74)
GTA5.9 (4)	8.5:1	–	96 (72)	116 (87)	140 (104)
G8.3 (3,5)	10.5:1	–	83 (62)	99 (74)	–
	10.5:1	–	99 (74)	118 (88)	–
G8.3E (1,5)	10.5:1	–	99 (74)	118 (88)	–
GTA8.3 (4)	8.5:1	–	145 (108)	175 (130)	–
	8.5:1	–	150 (112)	190 (142)	–
GTA8.3SLB (4,6)	8.5:1	–	145 (108)	175 (130)	–
QSL9G (1,2,5)	9.7:1	–	145 (108)	175 (130)	–
G855 (3,5)	10:1	–	157 (117)	188 (140)	–
G855E (1,5)	10:1	–	157 (117)	188 (140)	–
GTA855 (3,5)	8.5:1	–	188 (140)	225 (168)	–
GTA855E (1,2,5)	8.5:1	–	188 (140)	225 (168)	–
	8.5:1	–	213 (159)	256 (191)	–
GTA855 (4)	8.5:1	–	213 (159)	256 (191)	–
	8.5:1	–	234 (174)	281 (210)	–
	8.5:1	–	238 (177)	286 (213)	–
KTA19GC (3,5)	8.5:1	265 (198)	–	–	–
KTA19GC (3,5)	8.5:1	–	317 (236)	380 (283)	–
KTA19GC (4)	8.5:1	–	350 (261)	420 (313)	–
KTA19GC SLB (4,6)	8.5:1	–	350 (261)	420 (313)	–
KTA38GCE (2,5)	8.5:1	507 (378)	635 (474)	–	–
	8.5:1	–	635 (474)	760 (567)	–
KTA38GC SLB (4,6)	8.5:1	567 (423)	710 (529)	–	–
	8.5:1	–	710 (529)	850 (634)	–

Notes

- (1) EPA SI NSPS-CERTIFIED – This engine is certified to meet the U.S. EPA SI NSPS emissions ratings of 1.0 gr/hp-hr NOx, 2.0 gr/hp-hr CO and 0.7 gr/hp-hr VOC; 0.5 gr/hp-hr NOx capabilities are available to meet local emissions requirements as well. The engine includes a factory-supplied air/fuel ratio controller and Cummins Emission Solutions Three-Way Catalyst. Contact your local distributor for fuel and operational requirements.
- (2) COMPLIANT-CAPABLE – This engine is capable of meeting the SI NSPS regulations from the factory. However, the owner/operator is required to conduct site compliance testing and submit documentation per the EPA SI NSPS requirements. Engines with the "E" designation include a factory-supplied air/fuel ratio controller and a Cummins Emission Solutions Three-Way Catalyst.
- (3) CUSTOMER-COMPLIANT UPGRADEABLE – This engine is capable of operating with a Three-Way Catalyst at this rating. It is the responsibility of the owner/operator to upgrade the engine with an air/fuel ratio controller and a Three-Way Catalyst capable of meeting the SI NSPS regulations. The owner/operator is required to conduct site compliance testing and submit documentation per the EPA SI NSPS requirements.
- (4) This engine is not capable of meeting the EPA SI NSPS requirements and is offered only for use outside the U.S.
- (5) Catalyst rating.
- (6) This engine emits 2.0 gr/hp-hr NOx, 4.0 gr/hp-hr CO and 1.0 gr/hp-hr VOC. This engine does not meet the revised EPA SI NSPS requirements for non-emergency engines and is offered only for use outside the U.S.

Well Servicing.

Cummins engines for well servicing are the toughest in the industry – more than ready to meet every challenge of your blending, cementing, fracturing and workover applications. Specialized aggressive ratings are available on many of our engine models.

But you also need to have your equipment to the job site on time. Cummins Heavy-Duty ISL9, ISX12 and ISX15 engines with 310-600 hp (231-447 KW) deliver the proven performance you demand – proven by millions upon millions of hours. Cummins dependability and reliability make us the best choice for diesel power for frac rig trucks and workover rig applications.

Well Servicing Engine Ratings

Off-Highway

ENGINE MODEL	RATING ⁽¹⁾ (BHP)	RATING ⁽¹⁾ (KW)	CONFIG.	DISPLACEMENT (L)
QSB3.3	85-120	63-90	I-4	3.3
QSB4.5	110-163	82-121	I-4	4.5
QSB6.7	146-300	109-224	I-6	6.7
QSL9	230-400	172-298	I-6	8.9
QSX11.9	320-500	239-373	I-6	11.9
QSX15	400-600	298-448	I-6	14.9
QSK19	506-800	377-597	I-6	19
QSK23	760-950	567-709	I-6	23
QST30	850-1500	634-1119	V-12	30.5
QSK45	2000-2250	1491-1677	V-12	45
QSK50	2250-2500	1677-1864	V-16	50.3
QSK60	2500-3000	1864-2237	V-16	60

On-Highway

ENGINE MODEL	RATING ⁽¹⁾ (BHP)	RATING ⁽¹⁾ (LB-FT)	CONFIG.	DISPLACEMENT (L)
ISL9	345-380	1150-1300	I-6	8.9
ISX12	350-450	1350-1650	I-6	11.9
ISX15	525-600	1850-2050	I-6	14.9

Hazardous Areas

ENGINE MODEL	RATING ⁽¹⁾ (BHP)	RATING ⁽¹⁾ (KW)	CONFIG.	DISPLACEMENT (L)
QSM11 Zone 2	365-500	272-373	I-6	10.8

(1) Other ratings may be available. Some ratings may be restricted and require approval for use. Please contact your distributor.

(2) Wet weight with standard features. May vary based on selected configuration.

(3) Noncertified ratings are also available. Please contact your distributor.

(4) Engines >751 hp will comply with EPA Nonroad Tier 4 Interim requirements using Transitional Program for Equipment Manufacturers (TPEM). No European emissions regulations for engines >751 hp.



WEIGHT⁽²⁾		EMISSIONS^(3,4)	AFTERTREATMENT
(LB)	(KG)		
606	275	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit Diesel Oxidation Catalyst
860	390	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit Diesel Oxidation Catalyst
1,144	519	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit Diesel Particulate Filter
1,561	708	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit Diesel Particulate Filter
2,798	1,269	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit Diesel Particulate Filter
3,166	1,436	U.S. EPA Tier 4(i), EU Stage IIIB	EcoFit Diesel Particulate Filter
4,535	2,057	U.S. EPA Tier 4(i)	-
6,001	2,722	U.S. EPA Tier 4(i)	-
7,337	3,328	U.S. EPA Tier 4(i)	-
13,199	5,987	Noncertified	-
12,566	5,700	U.S. EPA Tier 4(i)	-
21,206	9,619	U.S. EPA Tier 4(i)	-

WEIGHT⁽²⁾		EMISSIONS⁽³⁾	AFTERTREATMENT⁽⁶⁾
(LB)	(KG)		
1,770	803	U.S. EPA 2010	EcoFit Ultra-Low Emission Systems
2,798	1,269	U.S. EPA 2010	EcoFit Ultra-Low Emission Systems
3,122	1,416	U.S. EPA 2010	EcoFit Ultra-Low Emission Systems

WEIGHT⁽²⁾		EMISSIONS⁽⁵⁾	AFTERTREATMENT
(LB)	(KG)		
2,374	1,077	U.S. EPA Tier 4(i), IMO 2	-

(5) Engine will comply with EPA Nonroad Tier 4 Interim requirements using Transitional Program for Equipment Manufacturers (TPEM).

(6) DPF: Diesel Particulate Filter. SCR: Selective Catalytic Reduction.

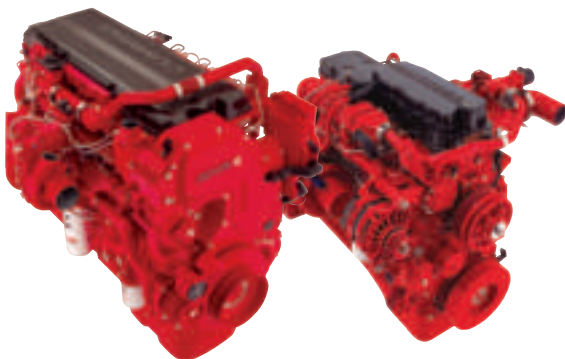
On-Highway Engines.

You can depend on Cummins to deliver the leading on-highway technology.

Cummins on-highway engines feature the industry's most advanced clean diesel technology that delivers better fuel economy, better performance and better reliability for our wide range of customers.

Cummins is the only engine manufacturer to design and develop, manufacture and support every component from the air handling to the exhaust aftertreatment.

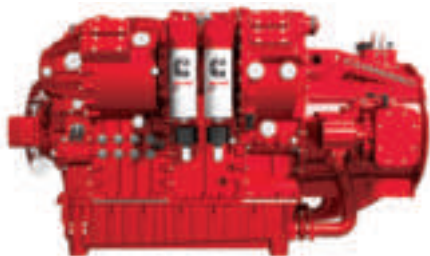
Our proven technology makes Cummins engines the leaders in fuel efficiency and reliability. And the world-class technology of EcoFit Ultra-Low Emission (ULE) Systems, including our proven Selective Catalytic Reduction (SCR) technology, delivers significant advantages over any in-cylinder solution.



Our complete lineup of on-highway diesel engines offers many advantages. At the high end of the lineup are the ISX15 and the ISX12. The ISX15 is the industry-leading big-bore engine that delivers up to 6 percent better fuel economy over our 2007 ISX while achieving near-zero emissions with the use of SCR technology. The ISX12 features a high power-to-weight ratio, strong acceleration and a compact design ideal for work truck applications.

Next in the lineup are the ISL9 and ISB6.7, which use the same cooled Exhaust Gas Recirculation (EGR) and the EcoFit ULE System. Each engine offers a wide range of horsepower and torque options while delivering on all the performance requirements of customers to best fit specific application needs.

Pressure Pumping Transmissions.



Cummins QTR Series Transmissions introduce high-performance shifting to the well servicing industry, using advanced dual lay shaft technology. The dual lay shaft is essentially two standard transmissions, side by side. The transmissions preselect the next gear, allowing for extremely fast shifts and producing constant torque at the output shaft for superior performance and durability. Rated at 2500 hp (1864 kW) and 3000 hp (2237 kW), the QTR2500 and QTR3000 transmissions are designed as a direct replacement for existing Cummins powertrain products, or they can be coupled to the legendary QSK50 or QSK60 engines. Benefits include simplified installation, improved productivity, ease of service and total value.

The QTR2500 and QTR3000 are built by Cummins to stringent quality-control standards and backed by a dedicated team of oil and gas industry experts in Cummins worldwide distribution network, with ready access to Genuine Cummins Parts. They deliver the superior performance you need to do your job. Every site. Every day.

GENERAL

HP	2500 (1864 kW) and 3000 (2237 kW)	
Warranty	Same as engine (1 year/unlimited hours; 2 years/2,000 hours)	
Weight	7,300 lb (3,311 kg)	

DIMENSIONS

Length	82 in	2083 mm
Width	50 in	1270 mm
Height	62 in	1575 mm

GEAR RATIOS

1	5.85
2	4.60
3	3.62
4	2.85
5	2.26
6	1.78
7	1.40
8	1.10

Customized Packaging.



ISX12 Workover Rig Package

Centers Of Excellence.

To better serve our customers' needs worldwide, Cummins Centers of Excellence (COE) leverage our processes and expertise to provide unsurpassed technical sales and consulting, engineering, specialty package assembly and test procedure capabilities. Supported by Cummins global distribution network, our COEs meet your highly specialized customer requirements in the oil and gas and commercial marine markets around the world.

Centers of Excellence combine technical sales and application engineering expertise, operational systems and infrastructure to deliver customized solutions and, when required, consulting and project management directly with OEMs.

The COE unique value proposition includes our market-focused, highly integrated business model for a total value package that no other manufacturer can cost-effectively duplicate. Visit CumminsOilandGas.com for more information.

Available products include:

- Workover Rig Packages
- Drilling Power Modules
- Pumping Packages

Oil And Gas Center Of Excellence.

Based in Houston, Texas, the Oil and Gas Center of Excellence (COE) offers products such as specialized packages for land-based workover rigs, pump drives for hazardous area applications, drill rig power modules and high-horsepower power units. Houston has been carefully selected as the home for this COE to facilitate ready access to and collaboration with the high concentration of oil and gas customers who have headquarters in the region. Our 65,000-square-foot facility includes the latest in engineering, manufacturing and test technology and is certified to ISO 9001:2008 standards.

The Offshore Oil And Gas And Commercial Marine Center Of Excellence.

Based in Singapore, the offshore oil and gas and commercial Marine Center of Excellence (COE) offers products that include specialized packages for hazardous area applications, offshore drill rig power modules, offshore emergency gensets, flood pumps and C Power marine gensets. Singapore has been selected as the home of this combined COE facility to provide ready access to and collaboration with the high concentration of shipyards and oil platform builders and their supply bases located in the region. This facility includes the latest in engineering, manufacturing and test technology and will be certified to ISO 9001:2008 standards.



QSK60 Offshore Drilling Power Module

Cummins Power Products.

Cummins Power Products offers a total solution for power unit needs. Offering a full range of diesel and compressed gas products from 41 hp to 1500 hp with options designed to meet your specific needs. Cummins Power Products offers turnkey solutions in both open and enclosed platforms from a standard line of base engine models, or a customized unit specifically engineered for a unique piece of equipment for virtually any application. For more information on Cummins Power Products ratings, please visit cumminspowerproducts.com.

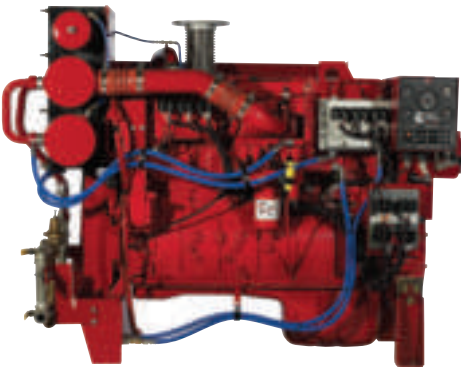
Power Generation.

Cummins is a world leader in the design and manufacture of generator sets, G-Drive engines and mobile gensets, offering a full range of gas and diesel power to meet a variety of oil and gas application needs. For more detailed information on available ratings and product offerings, please visit cumminspower.com.



Fire Power.

The oil and gas industry is a tough business, with job sites located in some of the harshest environments around the world. All of the Cummins Fire Power pump drivers for oil and gas utilize the latest engineering technology, including 3-D modeling, and are rigorously tested to Cummins stringent standards, ensuring a premium, reliable product.



Cummins Fire Power has certified technicians who are trained and equipped with diagnostic tools and knowledge on the latest engine technologies. The Cummins Fire Power 2-year/2,000-hour warranty includes parts, labor and travel. For more information on specifications and certifications, please visit cumminsfirepower.com.

Emission Solutions.

On-Highway.

EcoFit Ultra-Low Emission (ULE) Systems.

Cummins emission control solution consists of a highly capable base engine with cooled EGR, along with our EcoFit ULE Systems, which include our Diesel Particulate Filter (DPF), decomposition reactor and Selective Catalytic Reduction (SCR) technology, which reduces oxides of nitrogen (NOx) and Particulate Matter (PM) to achieve near-zero emissions standards. Cummins engines and the EcoFit ULE Systems developed by Cummins Emission Solutions are proven, integrated solutions that work seamlessly together for better fuel economy, reliability and overall engine performance.



Off-Highway Natural Gas Compression.

EcoFit Three-Way Catalyst (TWC) For Natural Gas Engines.

Cummins Emission Solutions offers the EcoFit Three-Way Catalyst program for rich-burn natural gas engines to simultaneously reduce NOx, CO and THC. Our Three-Way Catalysts are sized to offer a full range of emissions reductions. Cummins can help you meet the most stringent requirements anywhere.



Please contact your Cummins distributor for the full product line offering.

Off-Highway Tier 4 Interim.

EcoFit Diesel Oxidation Catalyst. QSB3.3, QSB4.5, QSB6.7 Below 174 hp.

The EcoFit Diesel Oxidation Catalyst has been specifically designed for the QSB3.3, QSB4.5 and QSB6.7. The catalytic coating and substrate are unique to these engines and provide optimum performance without compromising engine transient response or reliability. The catalyst does not operate by passive or active regeneration typical of a Diesel Particulate Filter, but instead works by a simple process of continuous passive oxidation of the Particulate Matter (PM) as it flows through the system. This oxidation is initiated by the normal temperature of the exhaust so that additional fuel injection is not needed to increase this

Off-Highway And Marine Emissions Timetables.

At Cummins, the right technology matters. Across Cummins entire lineup of off-highway and marine engines, our technology strategy is to be out in front with the right technology before standards change around the globe. The charts shown here illustrate the timetables to meet European and U.S. EPA emissions standards for both off-highway and marine applications, including stringent European Stage IIIB and U.S. EPA Tier 4 Interim emissions standards, as well as European Stage IV and U.S. EPA Tier 4 Final standards. So when you purchase your Cummins engines for oil and gas applications worldwide, you know you have met every standard at the right time, with the right technology.

Off-Highway Emissions Timetable

U.S. EPA

kW	(HP)	2005	2006
0 - 7	(0 - 10)	Tier 2	
8 - 18	(11 - 24)	Tier 2	
19 - 36	(25 - 48)	Tier 2	
37 - 55	(49 - 74)	Tier 2	
56 - 74	(75 - 99)		
75 - 129	(100 - 173)	Tier 1	
130 - 224	(174 - 301)	Tier 1	
225 - 449	(302 - 602)		
450 - 560	(603 - 751)		
>560	(>751)	Tier 1	

EUROPE

kW	(HP)	2005	2006
18 - 36	(24 - 48)	Stage II	
37 - 55	(49 - 74)	Stage II	
56 - 74	(75 - 99)		
75 - 129	(100 - 173)	Stage II	
130 - 560	(174 - 751)	Stage II	

Marine Emissions Timetable

Worldwide - IMO*

kW	(HP)	2007
> 130	> 174	Tier 1

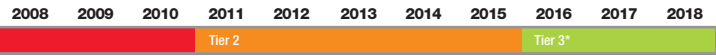
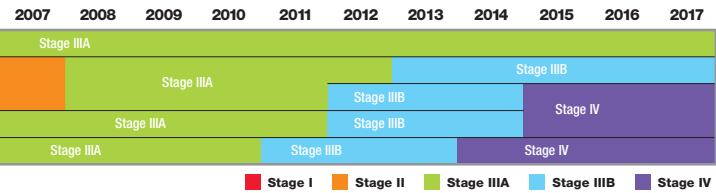
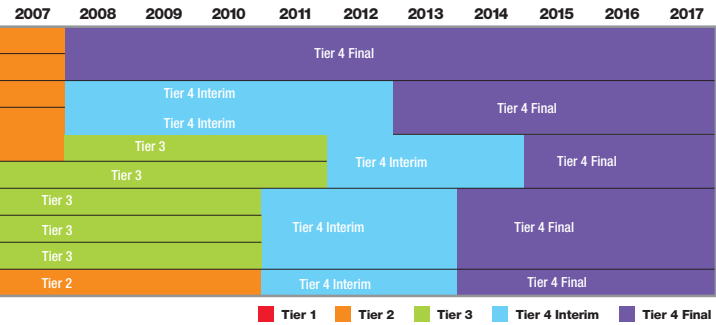
U.S. EPA - Tier 2 and Tier 3**

Displacement (L/cyl)		2007
< 0.9	> 75 kW	Tier 2
0.9 - 1.2		Tier 2
1.2 - 2.5		Tier 2
2.5 - 3.5		Tier 2
3.5 - 7.0		Tier 2

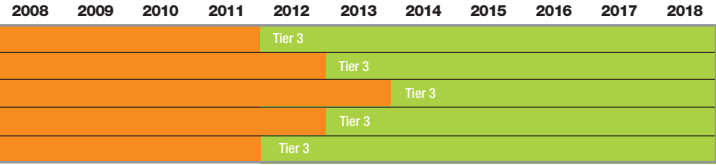
U.S. EPA Tier 4***

kW	(HP)	2007
600 - 1399	805 - 1876	
1400 - 1999	1877 - 2681	
2000 - 3700	2681 - 4962	

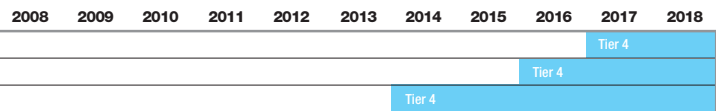
temperature. This catalyst will not create additional noise or heat compared with a standard muffler. The equipment will need to retain a muffler for noise reduction; however, we offer an integrated muffler as an option to maximize integration flexibility. This maintenance-free catalyst provides the installation simplicity needed for Tier 4 Interim engines below 174 hp (130 kW) and is designed to last the life of the engine.



*In emission-control areas only



**EPA Tier 2 and Tier 3 implementation based on displacement



***EPA Tier 4 implementation based on maximum engine power



EcoFit Diesel Oxidation Catalyst And EcoFit Diesel Particulate Filter.

QSB6.7 Above 174 hp, QSL9, QSX11.9, QSX15.

In order to reach the Particulate Matter (PM) standards on off-highway applications, Diesel Particulate Filters are needed. A PM reduction of over 90 percent is obtainable through either passive or active regeneration. When the system is used in “active” operation, the operator can control the regeneration event. These combination systems are designed for rugged off-highway markets and to fit tight space constraints. Particulate aftertreatment technology is new to the off-highway equipment industry – but it is not new to Cummins. Cummins introduced on-highway engines certified to EPA 2007 standards using both cooled EGR and the EcoFit Diesel Particulate Filter. Over one million Cummins Emission Solutions catalyzed DPFs have been in use since 2004, and our experience with using EGR extends back to 2002.



Off-Highway Tier 4 Final.

EcoFit Ultra-Low Emission System – MidRange. QSF2.8, QSB4.5, QSB6.7, QSL9.

The EcoFit Ultra-Low Emission System is specifically configured to provide a more compact and flexible equipment installation for Tier 4 Final. The EcoFit Diesel Oxidation Catalyst, previously used for ratings below 174 hp (130 kW), is scaled up in size for the 9-liter platform. Combined with SCR, the aftertreatment system achieves near-zero emissions with fully passive, flow-through operation. The EcoFit Ultra-Low Emission System will be utilized by the QSF2.8, QSB4.5, QSB6.7 and QSL9 engines to offer a common aftertreatment solution from 75 hp to 400 hp (56-298 kW).

EcoFit Ultra-Low Emission System – Heavy-Duty. QSX12, QSX15.

The EcoFit Ultra-Low Emission System raises the threshold of what can be achieved in the trade-off between lower emissions and higher performance. With this technology, we are able to realize the full power productivity of the QSX engines by precisely balancing emissions control between the aftertreatment and engine combustion with EGR and Xtra-High Pressure Injection (XPI) fuel injection.



Our integration capability translates into significant packaging, performance and reliability benefits for our customers.

For Tier 4 Final 2014 near-zero emissions levels, fuel consumption is reduced by an additional 3 percent to 4 percent from Tier 3.

This additional fuel savings will more than offset the cost of Diesel Exhaust Fluid (DEF) dosing required for the functioning of the SCR system, and overall fluid costs for the equipment operator.

EcoFit Selective Catalytic Reduction – High-Horsepower. 19L And Above.

To meet the EPA Tier 4 Final mobile off-highway emissions regulations above 751 horsepower, Cummins will leverage a proven next-generation in-house SCR technology and an optimized combustion process. This engine and aftertreatment architecture are common across all high-horsepower platforms. Designed with customer input, the Tier 4 Final solution will deliver the same level of reliability, durability and cost of operation that customers expect from Cummins.



Filtration.

The changing demands of oil and gas applications present tremendous challenges for filtration. With over 50 years of expertise, Cummins Filtration engineers, manufactures, distributes and services all of these oil and gas components worldwide, providing a unique competitive advantage.

With the many filtration, coolant and fuel additive choices on the market, it is more important than ever to select a brand that provides the highest standards of performance and protection. Cummins Filtration, through its industry-leading Fleetguard® brand products, provides integrated solutions for air, lube and fuel filtration, crankcase ventilation, and coolant and chemical products to keep your engines running cleaner, longer. Fleetguard products are on the job in the oil fields, at the compressor stations, on the offshore rigs, along the pipeline or in refineries and processing plants.

Renowned worldwide, the Fleetguard brand offers a complete line of products specifically engineered for oil and gas applications, including:

- Air filtration and housing
- Crankcase ventilation
- Coolants and chemicals
- Depth filtration
- Emissions
- Fluid analysis
- Fuel filtration and fuel processors
- Hydraulic filtration
- Lube filtration
- Oil regulators and meters



Parts And Service.

Genuine Cummins Gasket Kits For Gas Compression Engines.

In the oil and gas industry, you do not get to visually inspect every engine at each well every day. A bad gasket that leaks (or worse yet, blows out) can cause significant problems and downtime, especially in remote locations. Every minute you are not operating, you lose a lot more money than you might save with a non-genuine Cummins gasket. So when you replace a head gasket or any other seal in a gas compression engine, make sure you are getting the exact replacement part that your Cummins engine needs – and the best value for your money. Ask for a Genuine Cummins Gasket Kit at your local distributor or certified Cummins service center.

Cummins offers a new line of gasket kits with packaging designed specifically for Cummins gas compression engines used in the most demanding pressure pumping operations. These new kits contain the exact Genuine Cummins gaskets designed to fit your engine – including Cealastic™ gaskets. You pay for only the gaskets you need – no extra gaskets are included in these kits. Cummins gasket prices are comparable to those of competitor parts – but the quality and value go beyond comparison.

Genuine Parts.

Leave it to the experts when it comes to critical parts for your engine, and enjoy peace of mind. Avoid potential early failure and unscheduled downtime caused by using non-genuine Cummins parts. For parts and service information, contact your

local Cummins distributor or OEM dealer, call our 1-800-DIESELS™ Customer Assistance Center or visit quickserve.cummins.com.





Global Support.

Every Question. Answered.

All Cummins oil and gas solutions are supported 24 hours every day, 7 days a week, by the strength of the Cummins global network of over 6,500 distributor, branch and dealer locations in more than 190 countries and territories worldwide.

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