



PREMIUM DIESEL ENGINE PARTS



SUITABLE FOR:
CATERPILLAR® C6.6



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PROMO 153
MARCH 2025



PREMIUM REPLACEMENT PARTS SUITABLE FOR **CATERPILLAR®**

C6.6

This document contains a list of components that may be required during the overhaul of a variety of Caterpillar® C6.6 Engines. It is strongly recommended that you check the part numbers listed within this document against your engine serial number prior to ordering.

Please note that this is not an all-encompassing catalogue for the engines, therefore the item(s) that you require may not be listed in this document. A full listing of all KMP supplied components for this engine can be supplied by your sales representative on request.

Parts contained within this document are not guaranteed to be available at the time of publication, however they may be developed at a later date, any item that is not currently available is annotated with an asterisk (*), Items that are stocked at the time of publication may also become discontinued at a later date. Therefore, please contact your KMP sales representative to verify item availability before taking any action based on the information contained within this publication.



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CATERPILLAR® ENGINE C6.6

6CYL - 105MM Bore

CRANKSHAFT & COMPONENTS

CRANKSHAFT KIT	292-5859	1
CRANKSHAFT BARE	376-4075	1
MAIN BEARING SET STD	448-4217	1
CONROD BEARING SET STD	436-7781	1
THRUST WASHER KIT STD	247-2717	1
CRANKSHAFT SEAL FRONT	277-3013	1
CRANKSHAFT SEAL FRONT	371-8062	1
CRANKSHAFT SEAL REAR	209-9218	1
CRANKSHAFT SEAL REAR	277-0116	1
CRANKSHAFT SEAL REAR	292-0886	1
MAIN BEARING SET STD	448-4217	1
MAIN BEARING SET 0.25mm	448-4218	1
MAIN BEARING SET 0.50mm	448-4220	1
MAIN BEARING SET 0.75mm	448-4222	1
THRUST WASHER KIT STD	364-5145	1

CONNECTING ROD & RELATED PARTS

CONNECTING ROD (G)	331-0290	6
CONNECTING ROD (R)	331-0291	6
CONNECTING ROD (B)	331-0292	6
CONROD BUSH	276-7478	6
CONROD BEARING SET STD	436-7781	1
CONROD BEARING SET 0.25mm	480-4489	1
CONROD BEARING SET 0.50mm	480-4490	1
CONROD BEARING SET 0.75mm	458-7940	1
CONROD BOLT M12 X 1.25mm	225-5439	12
CONROD BOLT M10 X 1.00mm	323-9312	12

C6.6

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CATERPILLAR® ENGINE C6.6

6CYL - 105MM Bore

CYLINDER KITS & COMPONENTS

KMP CYLINDER KIT - KM2224		6
PISTON KIT	282-2224	1
PISTON, PIN AND CLIPS STD	282-2224-NR	1
PISTON RING SET STD	276-7476	1
LINER	KM105MMRS	1
PISTON KIT 0.50mm	380-2063	6
PISTON BODY, PIN & CLIPS 0.50mm	380-2063-NR	1
PISTON RING SET 0.50mm	380-2065	1
PISTON KIT 1.00mm	493-4289	6
PISTON BODY, PIN & CLIPS 1.00mm	493-4289-NR	1
PISTON RING SET 1.00mm	466-4849	1
KMP CYLINDER KIT - KM2486		6
PISTON KIT	361-2486	1
PISTON, PIN AND CLIPS STD	419-0379	1
PISTON RING SET STD	360-2028	1
LINER	KM105MMRS	1
PISTON KIT 0.50mm	361-2590	6
PISTON BODY, PIN & CLIPS 0.50mm	361-5352	1
PISTON RING SET 0.50mm	449-2818	1
PISTON KIT 1.00mm	451-8387	6
PISTON BODY, PIN & CLIPS 1.00mm	361-5353	1
PISTON RING SET 1.00mm	449-2819	1

CYLINDER KITS & COMPONENTS

KMP CYLINDER KIT - KM7475		6
PISTON KIT	276-7475	1
PISTON, PIN AND CLIPS STD	276-7475-NR	1
PISTON RING SET STD	276-7476	1
LINER	KM105MMRS	1
PISTON KIT 0.50mm	KM2062	6
PISTON BODY, PIN & CLIPS 0.50mm	380-2062	1
PISTON RING SET 0.50mm	380-2065	1
PISTON KIT 1.00mm	493-3305	6
PISTON BODY, PIN & CLIPS 1.00mm	493-3305-NR	1
PISTON RING SET 1.00mm	466-4849	1

CATERPILLAR® ENGINE C6.6

6CYL - 105MM Bore

CYLINDER HEAD & COMPONENTS

CYLINDER HEAD ASSY	309-6663	1
CYLINDER HEAD BARE	KMP-6663	1
TAPPET	278-5125	12
INJECTOR SLEEVE	517-8243	6
VALVE INLET	336-5446	12
VALVE INLET	309-6678	12
VALVE EXHAUST	336-5447	12
VALVE EXHAUST	339-9637	12
VALVE COLLET	152-9860	24
VALVE COLLET	276-8123	24
VALVE GUIDE	380-2073	24
VALVE SEAT INLET	322-4120	12
VALVE SEAT INLET	377-0399	12
VALVE SEAT EXHAUST	377-0400	12
VALVE SPRING INLET & EXHAUST	436-0521	24
VALVE SPRING INLET & EXHAUST	436-0524	12
VALVE STEM SEAL	299-5511	24
VALVE STEM SEAL	387-9503	24
VALVE CAP	276-8133	24
VALVE SPRING RETAINER	336-5439	24
ROCKER ARM ASSY	278-5111 *	6
ROCKER ARM ASSY	278-5112 *	6
PUSH ROD	278-5126	12
CAPSCREW CYL HEAD	276-8134 *	14

CYLINDER BLOCK & COMPONENTS

CYLINDER BLOCK	306-6845	1
CAMSHAFT	347-1131	1
CAMSHAFT	347-1132	1
CAMSHAFT	347-1133	1
CAMSHAFT BUSH	370-6545	1
PISTON COOLING NOZZLE (1)	276-5605	6
PISTON COOLING NOZZLE (2)	329-3796	6

(1) - Used in all builds except 667

(2) - Only used in Build 667 (Industrial Engines)

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CATERPILLAR® ENGINE C6.6

6CYL - 105MM Bore

GASKET KITS & COMPONENTS

GASKET KIT UPPER	KMP-C6.6-K1A*	1
GASKET KIT UPPER (1)	KMP-C6.6-K1B	1
GASKET KIT LOWER	KMP-C6.6-K2A*	1
GASKET KIT LOWER	KMP-C6.6-K2B	1
CYLINDER HEAD GASKET	176-3141	1
CYLINDER HEAD GASKET (2)	422-4438	1
GASKET VALVE COVER	256-7704	1
GASKET VALVE COVER	277-5063	1
GASKET VALVE COVER	309-6664	1
GASKET VALVE COVER	317-3064	1
GASKET OIL PAN (3)	275-9884	1
GASKET OIL PAN (4)	331-4400	1
GASKET INLET MANIFOLD	238-8288	1
GASKET INLET MANIFOLD	278-5128	1
GASKET EXHAUST MANIFOLD	416-7727	2
GASKET TIMING COVER	225-8287	1
GASKET TIMING COVER	226-8766	1
GASKET TIMING COVER	277-3012	1
GASKET TIMING COVER	319-9361	1
GASKET TIMING COVER	330-4778	1
GASKET TIMING COVER	335-5330	1
GASKET TIMING COVER	348-9985	1
GASKET TURBOCHARGER	141-8589	1
GASKET TURBOCHARGER	437-4170*	1
GASKET STARTER MOTOR MOUNT	9Y6089	1
OIL COOLER GASKET	225-7944	3
OIL COOLER GASKET	277-2500	1
OIL COOLER GASKET	281-7040	1
OIL COOLER GASKET	319-9366	1
GASKET WATER PUMP	334-4932	1

LUBRICATING OIL SYSTEM

OIL PUMP	374-7136	1
OIL PUMP	420-0454	1
OIL COOLER CORE	281-7039	1

FUEL SYSTEM

FUEL INJECTION PUMP	317-8021 *	1
FUEL INJECTION PUMP	324-0532	1
FUEL PUMP PRIMING	137-5541	1
FUEL PUMP TRANSFER	426-4806	1
FUEL PUMP TRANSFER 24V	446-5409	1
FUEL INJECTOR	212-8470	6
FUEL INJECTOR	320-0655	6
FUEL INJECTOR	320-0677	6
FUEL INJECTOR	320-0680	6
FUEL INJECTOR	320-0690	6
FUEL INJECTOR	321-3600	6
FUEL NOZZLE INJECTOR	321-0990	6

COOLING SYSTEM

WATER PUMP KIT	397-5684	1
WATER PUMP KIT	485-4895	1
WATER PUMP REPAIR KIT	354-4755	1
HOUSING C/W THERMOSTAT	367-1817	1
HOUSING C/W THERMOSTAT	417-7782	1
HOUSING C/W THERMOSTAT 82deg	497-3989	1

(1) - Please note that this kit is ONLY suitable engines with the following prefixed to their Serial Numbers - LC6, MRW, N6D, DSA, 666, PH0, C6T, C6E and C9G. Unfortunately, at present we currently do not have kits suitable for the other serial numbers available.

(2) - Only used in Build 667 (Industrial Engines)

(3) - Sump frame to Oil Pan

(4) - Sump frame to Block

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CATERPILLAR® ENGINE C6.6

6CYL - 105MM Bore

MISCELLANEOUS REPAIR COMPONENTS SUITABLE FOR
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CATERPILLAR® ENGINE C6.6

6CYL - 105MM Bore

FILTERS

AIR FILTER INNER	131-8821	1
AIR FILTER INNER	142-1404	1
AIR FILTER INNER	612502	1
AIR FILTER OUTER	131-8822	1
AIR FILTER OUTER	142-1339	1
AIR FILTER OUTER	612501	1
AIR FILTER HOUSING	1M7250	1
FUEL FILTER	299-8229	1
FUEL FILTER	319-0844	1
OIL FILTER	102-2828	1
OIL FILTER	269-8325	1
OIL FILTER	332-1019	1
OIL FILTER	462-1171	1
WATER/FUEL SEPARATOR FILTER	174-9570	1
WATER/FUEL SEPARATOR FILTER	308-7298	1
WATER/FUEL SEPARATOR FILTER	326-1644	1
WATER/FUEL SEPARATOR FILTER	360-8958	1
WATER/FUEL SEPARATOR FILTE	479-4131 *	1
WATER/FUEL SEPARATOR BOWL	343-5527	1
TRANSMISSION FILTER ELEMENT	126-1818	1
TRANSMISSION FILTER ELEMENT	337-5270	1

ELECTRICAL COMPONENTS

STARTER MOTOR 12V 4.2KW	357-5204	1
STARTER MOTOR 24V 4.5KW 10T	225-3150	1
STARTER MOTOR 24V 7.5KW 11T	234-2637	1
STARTER MOTOR 24V 8KW	288-6976	1
ALTERNATOR 12V 120A	383-2557	1
ALTERNATOR 24V 75A	399-1485	1
ALTERNATOR 24V 95A	226-7683	1
ALTERNATOR 24V 115A	344-5081	1
ALTERNATOR 24V 150A	249-0313	1

ELECTRICAL COMPONENTS

SWITCH	114-5333	1
SWITCH	165-5970	1
GLOW PLUG - 12V	292-9880	6
GLOW PLUG - 24V	226-8770	6
GLOW PLUG - 24V	292-9881	6
SENSOR TEMPERATURE	342-2924	1
SENSOR TEMPERATURE GP	131-0427	1
SENSOR TEMPERATURE GP	145-7028	1
SENSOR TEMPERATURE GP	238-0112	1
SENSOR TEMPERATURE GP	256-6454	1
SENSOR KIT TEMPERTURE AIR	278-5272	1
SENSOR PRESSURE	237-0957	1
SENSOR PRESSURE	296-5270	1
SENSOR PRESSURE	320-3061	1
SENSOR PRESSURE	320-3062	1
SENSOR PRESSURE	344-7392	1
SENSOR PRESSURE	349-1178	1
SENSOR PRESSURE	320-3063	1
SENSOR PRESSURE FUEL	311-6342	1
SENSOR PRESSURE FUEL & OIL GP	320-3060	1
SENSOR KIT PRESSURE AIR	278-5273	1
SENSOR PRESSURE AIR INLET	274-6720	1
SENSOR KIT PRESSURE OIL	278-5225	1
SENSOR SPEED	191-8304	1
SENSOR SPEED	238-0120	2

CATERPILLAR® ENGINE C6.6

6CYL - 105MM Bore

PULLEY & TENSIONERS

PULLEY ASSY IDLER	133-7023	1
PULLEY ASSY IDLER	144-5611	1
PULLEY ASSY IDLER	192-1563	1
PULLEY ASSY IDLER	348-5434	1
PULLEY ASSY IDLER 8 GROOVE	173-1498	1
PULLEY IDLER	261-0428	1
BELT TENSIONER	190-0642	1
BELT TENSIONER	190-0643	1
BELT TENSIONER	220-1209	1
BELT TENSIONER	369-1255	1
BELT TENSIONER	377-9082	1
BELT TENSIONER	377-9087	1
BELT TENSIONER	344-1722	1

TURBOCHARGERS

TURBOCHARGER	315-9810	1

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ABOUT **KMP**

KMP BRAND® supply premium diesel engine and component parts for heavy duty and agricultural machinery. We take pride in our position as a leading global supplier of heavy-duty engine components with over 20,000 parts in stock available from our distribution centres in the UK, USA and Singapore.

WHY CHOOSE **KMP**?

» **PREMIUM QUALITY**

We are dedicated to the quality of all KMP Brand® parts. Since 2003, we have held ISO 9001 certification for the production & distribution of diesel engine components. We have invested in the following metrology techniques and equipment throughout the development and quality control process:

- Co-ordinate Measuring Machine
- Digital Microscope
- Shadowgraph
- Mechanical Piston Ring Tester
- Digital Vernier Height Gauge
- Rockwell Hardness Tester
- Durometer Shore A
- XRF Analyser

» **INVESTMENT IN R&D**

At KMP Brand®, our Quality Department boasts an extensive repository of meticulously developed and rigorously approved drawings and samples. The KMP Brand® library of approved designs and samples is in constant evolution, with over 400 parts in active development.

» **GLOBAL DISTRIBUTION NETWORK**

With distribution centres strategically throughout the globe, KMP Brand® can offer the service levels to support your business needs. We have centres in:

- UK • Singapore • East & West Malaysia • Texas USA • Miami USA

» **20,000 + PARTS IN STOCK**

Over 15 OEM's represented and 3000 applications within the range.

» **OVER 30 YEARS EXPERIENCE**

We have grown to become a recognised global brand with thousands of dealers stocking KMP® parts in over 150 countries. Our multi-lingual sales team has the experience and ability to understand their customers' cultures and language.

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