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PREMIUM
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SUITABLE FOR:
CATERPILLAR[®] C7.1



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PROMO 152
MARCH 2025



PREMIUM REPLACEMENT PARTS SUITABLE FOR CATERPILLAR®

C7.1

This document contains a list of components that may be required during the overhaul of a variety of Caterpillar® C7.1 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 C7.1

6CYL - 105MM Bore

CRANKSHAFT & RELATED PARTS

CRANKSHAFT BARE	376-4074	1
CRANKSHAFT GEAR	276-7391	1
CRANKSHAFT SEAL FRONT	277-3013	1
CRANKSHAFT SEAL FRONT	371-8062	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 (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 M10 X 1	323-9312	12

CATERPILLAR® ENGINE C7.1

6CYL - 105MM Bore

CYLINDER KITS & COMPONENTS

<u>KMP CYLINDER KIT - KM2460</u>		6
PISTON KIT	361-2460	1
PISTON, PIN AND CLIPS STD	418-8570	1
PISTON RING SET STD	360-2028	1
LINER 105mm FINISHED	KM105MMRS	1
PISTON KIT 0.50mm	361-5413	6
PISTON BODY, PIN & CLIPS 0.50mm	451-6488	1
PISTON RING SET 0.50mm	449-2818	1
PISTON KIT 1.00mm	361-5414	6
PISTON BODY, PIN & CLIPS 1.00mm	451-6498	1
PISTON RING SET 1.00mm	449-2819	1
<u>KMP CYLINDER KIT - KM4315</u>		6
PISTON KIT	415-4315	1
PISTON, PIN AND CLIPS STD	370-7998	1
PISTON RING SET STD	276-7476	1
LINER 105mm FINISHED	KM105MMRS	1
PISTON KIT 0.50mm	380-4848	6
PISTON BODY, PIN & CLIPS 0.50mm	380-4848NR	1
PISTON RING SET 0.50mm	380-2065	1
PISTON KIT 1.00mm	380-5077	6
PISTON BODY, PIN & CLIPS 1.00mm	380-5077NR	1
PISTON RING SET 1.00mm	466-4849	1
<u>KMP CYLINDER KIT - KM4838</u>	KM4838	6
PISTON KIT	380-4838	1
PISTON, PIN AND CLIPS STD	380-4838-NR	1
PISTON RING SET STD	276-7476	1
LINER 105mm FINISHED	KM105MMRS	1
PISTON KIT 0.50mm	380-4838B	6
PISTON BODY, PIN & CLIPS 0.50mm	380-4838B-NR	1
PISTON RING SET 0.50mm	380-2065	1
PISTON KIT 1.00mm	380-4838D	6
PISTON BODY, PIN & CLIPS 1.00mm	380-4838D-NR	1
PISTON RING SET 1.00mm	466-4849	1

CYLINDER KITS & COMPONENTS

<u>KMP CYLINDER KIT - KM5891</u>		6
PISTON KIT	389-5891	1
PISTON, PIN AND CLIPS STD	389-5891-NR	1
PISTON RING SET STD	276-7476	1
LINER 105mm FINISHED	KM105MMRS	1
PISTON KIT 0.50mm	380-4849	6
PISTON BODY, PIN & CLIPS 0.50mm	380-4849-NR	1
PISTON RING SET 0.50mm	380-2065	1
PISTON KIT 1.00mm	380-5078	6
PISTON BODY, PIN & CLIPS 1.00mm	380-5078-NR	1
PISTON RING SET 1.00mm	466-4849	1
<u>KMP CYLINDER KIT - KM6203</u>		6
PISTON KIT	486-6203	1
PISTON, PIN AND CLIPS STD	486-6201	1
PISTON RING SET STD	360-2028	1
LINER 105mm FINISHED	KM105MMRS	1
PISTON KIT 0.50mm	421-7753 *	6
PISTON BODY, PIN & CLIPS 0.50mm	421-7756	1
PISTON RING SET 0.50mm	449-2818 *	1
PISTON KIT 1.00mm	421-7757 *	6
PISTON BODY, PIN & CLIPS 1.00mm	421-7759	1
PISTON RING SET 1.00mm	449-2819 *	1

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CATERPILLAR® ENGINE C7.1

6CYL - 105MM Bore

CYLINDER KITS & COMPONENTS

KMP CYLINDER KIT - KM7786		6
PISTON KIT	436-7786	1
PISTON, PIN AND CLIPS STD	445-2942	1
PISTON RING SET STD	360-2028	1
LINER 105mm FINISHED	KM105MMRS	1
PISTON KIT 0.50mm	421-7753*	6
PISTON BODY, PIN & CLIPS 0.50mm	421-7756	1
PISTON RING SET 0.50mm	449-2818*	1
PISTON KIT 1.00mm	421-7757*	6
PISTON BODY, PIN & CLIPS 1.00mm	421-7759	1
PISTON RING SET 1.00mm	449-2819*	1
KMP CYLINDER KIT - KM9475		6
PISTON KIT	443-9475	1
PISTON, PIN AND CLIPS STD	369-3188	1
PISTON RING SET STD	276-7476	1
LINER 105mm FINISHED	KM105MMRS	1
PISTON KIT 0.50mm	443-9898	6
PISTON BODY, PIN & CLIPS 0.50mm	444-0993	1
PISTON RING SET 0.50mm	380-2065	1
PISTON KIT 1.00mm	443-9919	6
PISTON BODY, PIN & CLIPS 1.00mm	444-0996	1
PISTON RING SET 1.00mm	466-4849	1

CYLINDER HEAD & COMPONENTS

CYLINDER HEAD ASSY 12 VALVE	425-3316*	1
CYLINDER HEAD ASSY 24 VALVE	452-6584*	1
INJECTOR SLEEVE	517-8243	6
TAPPET	278-5125	12
TAPPET	385-4313*	12
TAPPET	464-6253	12
VALVE INLET	497-1111	6
VALVE INLET	336-5446	12
VALVE INLET	309-6678	12
VALVE EXHAUST	315-3394	6
VALVE EXHAUST	336-5447	12
VALVE EXHAUST	339-9637	12
VALVE COLLET	152-9860	48
VALVE COLLET	276-8123	48
VALVE COLLET	315-3393	24
VALVE GUIDE	335-6264	12
VALVE GUIDE	356-9640	24
VALVE SEAT INLET	381-6236	6
VALVE SEAT INLET	322-4120	12
VALVE SEAT INLET	377-0399	12
VALVE SEAT EXHAUST	335-6266	6
VALVE SEAT EXHAUST	343-5964	12
VALVE SEAT EXHAUST	377-0400	12
VALVE SPRING INLET & EXHAUST	436-0524	12
VALVE SPRING INLET & EXHAUST	436-0521	24
VALVE STEM SEAL	299-5511	24
VALVE STEM SEAL	387-9503	24
STEM SEAL INLET VALVE	252-6438	6
STEM SEAL EXHAUST VALVE	254-3954	6

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CATERPILLAR® ENGINE C7.1

6CYL - 105MM Bore

CYLINDER HEAD & COMPONENTS

VALVE CAP	276-8133	24
VALVE SPRING RETAINER	336-5439	24
VALVE SPRING RETAINER	335-5607*	12
ROCKER ARM ASSEMBLY INLET	225-5625	6
ROCKER ARM ASSEMBLY EXH.	225-5640	6
PUSH ROD	067-6095	12
PUSH ROD	278-5126	12

CYLINDER BLOCK & COMPONENTS

CAMSHAFT	336-7516*	1
CAMSHAFT	350-0637	1
CAMSHAFT	396-8795	1
CAMSHAFT BUSH	370-6545	1
CAMSHAFT GEAR 68 TEETH	425-7103*	1
CAMSHAFT THRUST WASHER	232-3666*	1
PISTON COOLING NOZZLE	329-3796	6

GASKET KITS & COMPONENTS

GASKET KIT OH (CHG. 359-6616)	KMP-C7.1/320D2-FS	1
GASKET KIT OH (CHG. 388-4707)	KMP-C7.1T-FS	1
GASKET KIT UPPER 12 VALVE	KMP-C7.1-K1*	1
GASKET KIT LOWER	KMP-C7.1-K2*	1
CYLINDER HEAD GASKET (1)	359-6616	1
CYLINDER HEAD GASKET (2)	388-4707	1
CYLINDER HEAD GASKET (3)	422-4438	1
CYLINDER HEAD GASKET 1.40mm	424-8881	1
CYLINDER HEAD GASKET 1.65mm	425-6411	1
CYLINDER HEAD GASKET 1.90mm	425-6413	1
GASKET VALVE COVER	256-7704	1
GASKET VALVE COVER	566-7931	1
GASKET OIL PAN	275-9884	1
GASKET OIL PAN	331-4400	1
GASKET OIL PAN	351-4749	1
GASKET TURBO	197-8419	1
GASKET INLET MANIFOLD	238-8288	1
GASKET EXHAUST MANIFOLD	371-7601	2
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	291-6524	1
GASKET TIMING COVER	319-9361	1
GASKET TIMING COVER	330-4778	1
GASKET TIMING COVER	348-9985	1
OIL COOLER GASKET	225-7944	1
OIL COOLER GASKET	277-2500	1
OIL COOLER GASKET	281-7040	1
OIL COOLER GASKET	319-9366	1
WATER PUMP GASKET	353-8578	1
THERMOSTAT GASKET HSG	222-5915	1

(1) - 12 valve configuration.

(2) - 24 valve configuration.

(3) - 24 valve configuration.

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CATERPILLAR® ENGINE C7.1

6CYL - 105MM Bore

LUBRICATING OIL SYSTEM

OIL PUMP	374-7136	1
OIL PUMP	420-0454	1
OIL COOLER CORE	281-7039	1
OIL COOLER CORE	287-7424	1

FUEL SYSTEM

FUEL INJECTION PUMP	368-9041 *	1
FUEL INJECTION PUMP	375-2647 *	1
FUEL TRANSFERPUMP 12V	446-5408	1
FUEL TRANSFERPUMP 24V	446-1895	1
FUEL TRANSFERPUMP 24V	446-5409	1
FUEL INJECTOR	371-3974	6
FUEL INJECTOR	396-9626	6
FUEL INJECTOR	610-2300	6

COOLING SYSTEM

WATER PUMP KIT	380-1658	1
WATER PUMP KIT	397-5684	1
WATER PUMP KIT	485-4895	1
THERMOSTAT 94 deg.	119-3075	2
HOUSING C/W THERMOSTAT	367-1817	1
HOUSING C/W THERMOSTAT	417-7782	1
HOUSING C/W THERMOSTAT	497-3990	1
HOUSING C/W THERMOSTAT 82 deg.	497-3989	1
THERMOSTAT SEAL	281-8744	1

CATERPILLAR® ENGINE C7.1

6CYL - 105MM Bore

MISCELLANEOUS REPAIR COMPONENTS SUITABLE FOR
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CATERPILLAR® ENGINE C7.1

6CYL - 105MM Bore

FILTERS

AIR FILTER SECONDARY	252-5002	1
AIR FILTER PRIMARY	256-7902	1
FUEL FILTER	439-5037*	1
FUEL FILTER	159-6102	1
FUEL FILTER	1R1804	1
FUEL FILTER	509-5694*	1
OIL FILTER	269-8325	1
OIL FILTER	322-3155	1
OIL FILTER	462-1171	1
TRANSMISSION FILTER ELEMENT	126-1813	1
TRANSMISSION FILTER ELEMENT	126-1818	1
WATER SEPARATOR FILTER	360-8958	1
WATER SEPARATOR FILTER	441-5111 *	1
WATER SEPARATOR FILTER	479-4131 *	1
WATER SEPARATOR FILTER	523-4987*	1
HYDRAULIC FILTER	093-7521	1
HYDRAULIC FILTER	179-9806	1

ELECTRICAL COMPONENTS

STARTER MOTOR 12V 4.0KW 10T	321-8965	1
STARTER MOTOR 12V 4.2KW	357-5204	1
ALTERNATOR 24V 95A	226-7683	1
ALTERNATOR 24V 95A	235-7133	1
ALTERNATOR 24V 115A	344-5081	1
ALTERNATOR 24V 145A	352-4700	1
ALTERNATOR 24V 150A	561-3002	1
SWITCH OIL PRESSURE	237-4894	1
SWITCH FUEL TEMP	169-5326	1
SWITCH GP MAGNETIC 24V	398-0940	1
SENSOR PRESSURE	320-3061	2
SENSOR PRESSURE	320-3062	1
SENSOR PRESSURE	320-3063	1
SENSOR PRESSURE	320-3064	1
SENSOR PRESSURE	349-1178	1
SENSOR PRESSURE	434-3436	1
SENSOR PRESSURE FUEL FILTER	266-0136	1
SENSOR GP PRESSURE FUEL/OIL	320-3060	1
SENSOR PRESSURE FUEL/OIL	274-6721	1
SENSOR GP TEMPERATURE	145-7028	1

CATERPILLAR® ENGINE C7.1

6CYL - 105MM Bore

PULLEY & TENSIONERS

PULLEY IDLER	261-0428	1
PULLEY ASSY IDLER 8 GROOVE	279-2589	1
IDLER ASSY	348-5434	1
TENSIONER BELT	329-8797	1
TENSIONER BELT	344-1722	1
TENSIONER BELT	369-1255	1
TENSIONER BELT	377-9082	1

V-BELTS

V-BELT SET FAN DRIVE 2pcs.	126-2240	1
V-BELT SET 2pcs.	4N8771	1

TURBOCHARGERS

TURBOCHARGER	315-9810	1
TURBOCHARGER	359-0128*	1
TURBOCHARGER	431-4572	1
TURBOCHARGER	431-4575*	1
TURBOCHARGER	435-4500*	1
TURBOCHARGER	435-4501*	1



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