YOUR ENGINE OVERHAUL. YOUR CUSTOM SOLUTION.

MARINE BUNDLED REPAIR SOLUTION 3412C, 3412D, 3412E Engine Overhaul









CATERPILLAR

FORN DOWN



AFTE

BUILDING LIFE BACK INTO THE OCEARCH ENGINE

The engines powering the OCEARCH vessel earned 16,000 hours as a Bering Sea crab boat, before being purchased for shark research.

The crew worked with the Cat Dealer Network to overhaul the vessel's engines with genuine Cat parts. The rebuild, complete in 2012, lowered their emission levels and reduced fuel consumption by 20 percent. "This made a huge impact from a cost perspective and for our ability to operate globally," said Chris Fischer, OCEARCH founding chairman.

Overhauling with Cat products was important to the crew. Crossing the Atlantic twice in six months, they needed to trust their engines. "Once we departed, the next time we would see land would be 30 days later in South Africa," Captain Jody Whitworth said.

WE HAVE ENGINEERED IT FOR PERFORMANCE. YOU CUSTOMIZE IT FOR YOUR WORK.

Keep your vessel on the water longer — overhaul it with our new Cat[®] Marine Bundled Repair Solution. We have made it easy to order. Decide what makes sense for your engine or work with your Cat dealer to find the best option.

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From Foundational to Optimal package levels, we are offering flexible repair options for a top end or major overhaul. Your Bundled Repair is available when you need it, parts come pre-packed and segmented for convenience. Cat parts are manufactured to precise specifications, engineered for reliable, high-quality overhauls.

You asked for improved pricing and a longer warranty — we listened. Delivered at a value price, your Bundled Repair Solution is backed by our standard, one-year parts warranty. Coverage is based on repair levels and applies even if you do the work. Due to variations based on region, see your local Cat dealer for Financing options and Customized Promotions available to you.

3412 TOP END OVERHAUL

FOUNDATIONAL

Extend the life of your engine — replace components that get the most wear with a basic overhaul package.

Top End Overhaul Foundational Kit	X					
After Cooler and Lines Kit (ACL)	Includes:					
Expansion Tank Kit (EXP)	Gasket and Seals Kits					
Single Cylinder Head Kit (SCH)	PLUS other 100 percent					
Fuel System Kit (F)	Replacement Parts (Fuel Filter, Oil Filter,					
Heat Exchanger Kit (EXC)	Regulator and more!)*					
Oil Cooler & Lines Kit (OCL)	nogulator and morol,					

Ask your dealer for Customized Promotions based on Selected Repair/ Overhaul Level



Features and benefits

Bundled pricing to fit your budget
Engineered for reliable, high-quality overhauls
Fast, single shipment delivery

Parts packaged for an efficient overhaul process
 Incorporates all the latest engineering changes

ADVANCED

Keep the **features and benefits** from our foundational package and add parts specific to your engine needs — customize your rebuild.

3412 TOP END OVERHAUL – ADVANCED										
Top End Overhaul Foundational Kit	X									
Cylinder Head	Choose Overhaul									
Fuel Pump / HEUI Pump	Foundational Kit PLUS one									
Injectors / Nozzles	or more additional primary									
Turbo / Turbo Cartridge	components from this list*									
Ask your dealer for Customized Promotions										

Ask your dealer for Customized Promotions based on Selected Repair/ Overhaul Level



Choose ONE OR MORE components X

OPTIMAL

Bring your engine to original factory specifications and performance — our highest overhaul package, built on all our foundational **features and benefits**.

3412 TOP END OVERHAUL – OPTIMAL Top End Overhaul Foundational Kit										
Cylinder Head	X	Choose Overhaul								
Fuel Pump / HEUI Pump	Χ	Foundational Kit and								
Injectors / Nozzles	X	ALL primary components								
Turbo / Turbo Cartridge	ge X from this list*									
Ask your dealer for Customized Promotions based on Selected Repair/ Overhaul Level										



Choose ALL components 🗙

3412 MAJOR OVERHAUL

FOUNDATIONAL

Extend the life of your engine — replace components that get the most wear, with a basic overhaul package.

3412 MAJOR OVERHAUL	– FOUNDATIONAL								
Major Overhaul Foundational Kit	X								
After Cooler & Lines Kit (ACL)									
Expansion Tank Kit (EXP)									
Single Cylinder Head Kit (SCH)	Includes:								
Fuel System Kit (F)	Gasket and Seals Kits PLUS other 100 percent								
Heat Exchanger Kit (EXC)	Replacement Parts								
Oil Cooler & Lines Kit (OCL)	(Fuel Filter, Oil Filter,								
Front Structure Kit (FS)	Regulator and more!)*								
Rear Structure Kit (RS)									
Central & Lower Structure Kit (CL)									
Ask your dealer for Customized Promotions based on Selected Repair/ Overhaul Level									

ADVANCED

Keep the **features and benefits** from our foundational package and add parts specific to your engine needs — customize your rebuild.

Major Overhaul Foundational Kit	X					
Cylinder Head						
Cylinder Packs						
Fuel Pump / HEUI Pump	Choose Overhaul Foundational Kit PLUS one					
Injectors / Nozzles						
Oil Cooler	or more additional primary					
Oil Pump	components from this list*					
Turbo / Turbo Cartridge						
Water Pump	7					

OPTIMAL

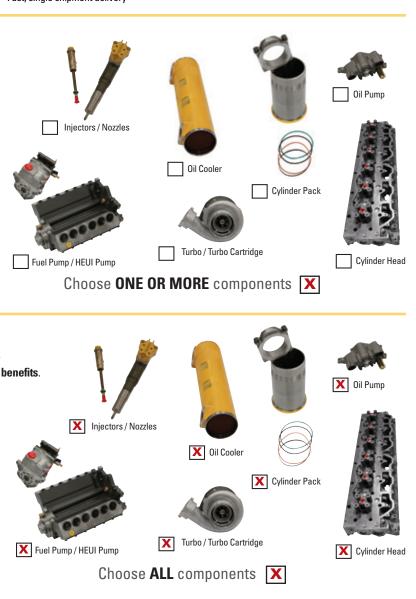
Bring your engine to original factory specifications and performance — our highest overhaul package, built on all our foundational **features and benefits**.

Major Overhaul Foundational Kit X										
Cylinder Head	X									
Cylinder Packs	X									
Fuel Pump / HEUI Pump	X	Choose Overhaul								
Injectors / Nozzles	X	Foundational Kit and								
Oil Cooler	X	ALL primary components								
Oil Pump	X	from this list*								
Turbo / Turbo Cartridge	X									
Water Pump	X									



Features and benefits

- Bundled pricing to fit your budget
 Engineered for reliable, high-quality overhauls
 Fast, single shipment delivery
- Parts packaged for an efficient overhaul process
 Incorporates all the latest engineering changes



3412 MARINE ENGINE OVERHAUL – RELATED PARTS MATRIX

ENGINE MODEL	ENGINE SERIAL NUMBER PREFIX	ENGINE ARR	CYLINDER PACK	СҮ	LINDER HEA	D GROUP ¹	FL INJE	JEL CTOR ²	FUEL INJE Nozz		FUEL TR Pu	ansfer Mp	HEUI	PUMP	MECH FUEL	anical Pump	OIL COO	LER CORE	OIL	PUMP	TU	RBO	TURBO (CARTRIDGE	WATER	RPUMP	ROD BI	EARING⁵	MAI T	N BEARINGS ^{6,7} & HRUST PLATE ⁸
			REMAN	NEW	REMAN	UPGRADE TO NEW	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	REMAN	NEW	SIZE	NEW	SIZE/DESCRIPTION
		1302549	0R4636						4W7019	0R3536											6N2020	N/A	6N3902	0R5904						
		1243400							7W7026	0R3423																				
		1790769																			4W1148	10R8249	4W1225	0R5363						
		1790770							4W7018	0R3422													1001220							
	60M1-UP	7W7584 4W3920	0R1572	1413228	20R0520	20R0523	N/A	N/A			4W5477	10R7907	N/A	N/A	4W6068	N/A	7C0145	0R5513	6N1030	0R4999	4W1232	10R8250			3520200	0R4680				
		4W3320 4N2247												,							4001202	1000230								
		1790771																			6N2020	N/A	6N3902	0R5904						
3412C		1855890							4W7019	0R3536					1083696						0112020									
		1W0733													4W6068				1W0729	0R9448	7C6703	0R5953	4N7601	0R5889	3520204	0R8802				
		1793232							-																					
		1835416	0R1572	1413228	20R0520	20R0523	N/A	N/A	7W7031	0R8785	4W5477	10R7907	N/A	N/A	4W6073	N/A	7C0145	0R5513	6N1030	0R4999	4W1232	10R8250	4W1225	0R5363	3520200	0R4680				
	9BR1-UP	1790775	061572	1413220	2060020	2000323	IN/A	IN/A			4003477	1067307	N/A	IN/A	400075	N/A	760145	0113513	0111030	0114333		4050040	4001223	000000	3520200	004000	3285574	Standard Bearing	3178766	Standard
		1790778 1790773							4W7018	0R3422					1083695						4W1148 6N2020	10R8249 N/A	6N3902	0R5904				Dearing		Bearing
		1433523													1002090						0142020	IN/A	0113902	000304			4W5702	0.635mm Undersize	4W5698	0.635mm Undersize
		1433522																									414/5700			
	3JK1-UP	1054832																_						_			4W5703	1.270mm Undersize	4W5699	1.270mm Undersize
	00101 01	1054833	0R4636	2055792	10R1479	10R0761	N/A	N/A	1301804	0R8787	1057573	10R8715	N/A	N/A	1086633	N/A	7C0145	0R5513	6N1030	0R4999	4P8576	N/A	1411468	0R7193	3520200	0R4680			4W5700	0.63mm
		1326105																											4003700	Oversize
		1326109																											4W5701	0.63mm Oversize
	81Z1-UP	9Y1476	0R1572	1413228	20R0520	20R0523	N/A	N/A	4W7018	0R3422	4W5477	10R7907	N/A	N/A	4W6073	N/A	7C0145	0R5513	6N1030	0R4999	4W1148	10R8249	4W1225	0R5363	3520200	0R4680				/ 0.63mm Undersize
		2385363							7W7031	0R8785					414/0070						4W1232	10R8250	4\\/1225	005000					2531752	Thrust Plate
3412C Marine GS	4121-UP	2385357 2385359	0R1572	1413228	20R0520	20R0523	N/A	N/A	4W7018	0R3422	4W5477	10R7907	N/A	N/A	4W6073	N/A	7C0145	0R5513	6N1030	0R4999	4W1148		4W1225	0R5363	3520200	0R4680			2436718	Standard Crankshaft
		2385355							407010	0110422					1083695						6N2020	10R8249 N/A	6N3902	0R5904					2100710	Main Bearing Kit
		1483588													1000000						4P2783 / 1020290 ⁴	10R8247 / 0R71574								
3412C PEEC	1EZ4389-UP	1483596	10R1438	1413228	20R0520	20R0523	N/A	N/A	1301804	0R8787	1057573	10R8715	N/A	N/A	612358	N/A	7C0145	0R5513	6N1030	0R4999	4P2784 / 1020290 ⁴	10R8248 / 0R71574	4P2785 / 10202924	0R71584	3520200	0R4680				
	1EZ4389-UP	1483589	0R1572	1412220	20R0520	20R0523	N/A	N/A	1201000	000700			N1/A	NI/A	010050	N/A	700145	0R5513		024000	7E0474	N/A	1198514	0R6950	0500000	0.7.4000				
	1224003 01	1483597	0R4636	1413220	20110320	20110323	19/5	N/A	1301806	0R8788	1057573	10R8715	N/A	N/A	612358	N/A	7C0145	000010	6N1030	0R4999	7E0475	IN/A	1198517	0R6953	3520200	0R4680				
3412D	REA 1-UP	2388191	N/A	1413228	20R0520	20R0523	N/A	N/A	2399634	10R8992	4W5477	20R0520	N/A	N/A	4W8680	N/A	7C0145	0R5513	6N1030	0R4999	2459734	10R1965	1497499	N/A	3520200	0R4680	2323226	Standard Bearing		
	-	2388190							2399633	10R8991																	3410060	0.635mm Undersize		
		1778882 1778881				100	1986877																					Standard		
	9KS 1-UP	1539100	10R4401	1700169	10R9919	10R5979		N/A	N/A	N/A	1491950	20R0962	2352026	10R1001	N/A	N/A	7C0145	0R5513	1161980	0R8210	2432567	10R2313	1497499	N/A	3520200	0R4680	3285574	Bearing		
		1539101					1535938																					0.635mm		
3412E		1833882																									4W5702	Undersize		
	9PW 1-UP	1765664	1088409	1700169	10R9919	10R5979	1747526	N/A	N/A	N/A	1401050	20R0962	2252026	10R1001	N/A	N/A	700145	0R5513	1161980	000010	4\4/1222	1000250	414/1005	ODEOCO	0500000		414/5700	1.270mm		
	0.0110	1765733	10110405		10110010	10110070		,,,,		N/A	1491950	2000902	2332020	10111001	11/4		7C0145	013313	1101900	0R8210	4W1232	10R8250	4W1225	0R5363	3520200	0R4680	4005703	Undersize		
		1833885																												

Notes:

Related Part numbers listed are for reference only due to potential engine serial number changes. Please contact your local Cat dealer to verify you have the correct parts prior to ordering.

¹ Cylinder Head Groups include valves and springs. ² HEUI[™] Injector part numbers shown here include a quantity of (1) Injector.

³ Injection Nozzle part numbers shown here include a quantity of (1) Injector.

⁴ Series Turbochargers.

⁵ Standard Rod Bearings are not included in the Overhaul Foundational Kits and must be ordered separately, depending on engine condition.
 ⁶ Main Bearings are not included in the Overhaul Foundational Kits and must be ordered separately, depending on engine condition.

⁷ Standard Crankshaft Main Bearing Kit includes a complete set of Standard Main Bearings and Thrust Plates.
⁸ Thrust Plates are not included in the Overhaul Foundational Kits and must be ordered separately.



Contact your Cat dealer for details

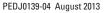
CHOOSE YOUR 3412 MARINE ENGINE OVERHAUL KIT

24 MONTHS/ 6,000 HOURS OF FREE ESC

ENGINE MODEL	ENGINE SERIAL NUMBER PREFIX	ENGINE ARRANGEMENT	TOP END OVERHAUL Foundational kit part #	MAJOR OVERHAUL Foundational kit part #				
	60M1-UP	4W3920 4N2247 1790770 1855890 7W7584 1790771 1243400 1302549 1W0733 1790769	4219722	4363145				
3412C	9BR1-UP	1793232 1790775 1790773 1790778 1835416	4361678					
	3JK1-UP	1433523 1433522 1054832 1054833 1326105 1326109	4219726	4361747				
	81Z1-UP	9Y1476	4288745	4288742				
3412C Marine GS	4121-UP	2385363 2385357 2385355 2385359	4219723	4361678				
3412C PEEC	1EZ4389-UP	1483588 1483596	4219721	4361749				
	124003-01	1483589 1483597	4219724	4362788				
3412D	REA 1-UP	2388191 2388190	4219727	4361748				
3412E	9KS 1-UP	1778882 1778881 1539100 1539101	4219725	4361745				
	9PW1-UP	1833882 1765664 1765733 1833885	4219728	4366847				



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