

A man wearing a black beanie, a dark long-sleeved shirt, and orange work gloves is pulling a thick, dark rope on the deck of a ship. The deck is made of light-colored metal plates. In the background, there's a blue structure, possibly part of the ship's superstructure. The lighting is bright, suggesting a sunny day.

YOUR ENGINE OVERHAUL.
YOUR CUSTOM SOLUTION.

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

MACORP **CAT**



BEFORE



TORN DOWN



AFTER

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 in business; overhaul it with our new 3412 Cat® Marine Bundled Repair Solution.

From Foundational to Optimal levels, we are offering you **flexible repair options** for your Top End or Major overhaul. All Cat parts are manufactured to **precise specifications** and engineered for reliable, **high-quality** overhauls.

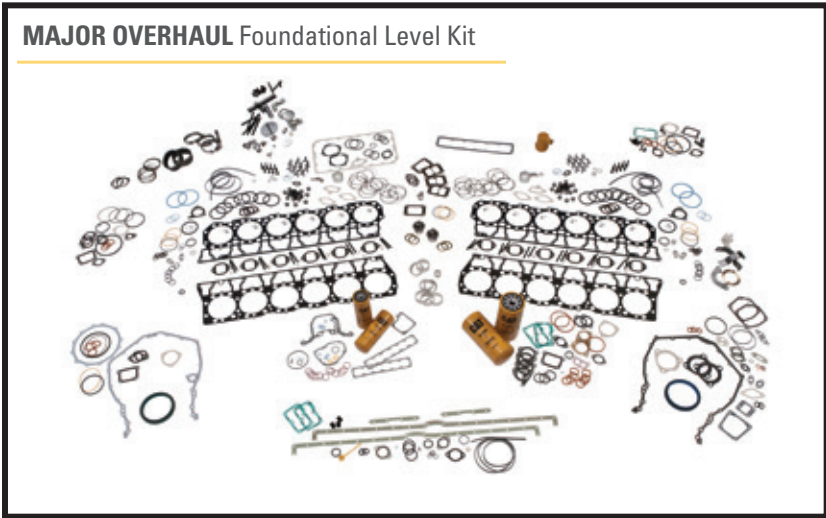
You asked for improved pricing and a **longer warranty** – we listened. Delivered at a **value price**, your Bundled Repair Solution is backed by our one-year parts warranty, with available extended coverage up to three years.

Additional pricing and coverage benefits are available based on the level you choose, and apply 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. Rely on your Cat dealer team to deliver **professional advice, expert service and unmatched support** across any water, on any coast.

YOU CHOOSE.

START WITH THE FOUNDATIONAL LEVEL:
SELECT OUR PREPACKAGED FOUNDATIONAL LEVEL KIT
OR CUSTOMIZE YOUR OWN FOUNDATIONAL LEVEL.

Containing all the basics for your best engine overhaul, our Foundational Level Kit is designed for convenience – prepackaged, ordered with a single part number and delivered in a single box. Our Customize Your Own Foundational Level allows you to order to your specific engine needs. No matter which Foundational Level option you choose, benefit from our bundled pricing and extended parts warranty when you complete your overhaul with our Advanced or Optimal Level.



*Includes all gaskets and seals required for a complete overhaul, and many 100% replacement items – ranging from thermostats to gear bushings.



Oil Cooler and Lines Gasket and Seal Kit



Central and Lower Structure Gasket and Seal Kit



Rear Structure Gasket and Seal Kit

					Major Overhaul Gasket and Seal Kits									
					Top End Overhaul Gasket and Seal Kits									
ENGINE MODEL	ENGINE SERIAL NUMBER PREFIX	ENGINE ARRANGEMENT	TOP END OVERHAUL FOUNDATIONAL KIT	MAJOR OVERHAUL FOUNDATIONAL KIT	SINGLE FUEL INJECTOR KIT	AFTERCOOLER AND LINES GASKET AND SEAL KIT	SINGLE CYLINDER HEAD GASKET AND SEAL KIT	OIL COOLER AND LINES GASKET AND SEAL KIT	FUEL SYSTEM GASKET AND SEAL KIT	EXPANSION TANK GASKET AND SEAL KIT	HEAT EXCHANGER GASKET AND SEAL KIT	FRONT STRUCTURE GASKET AND SEAL KIT	REAR STRUCTURE GASKET AND SEAL KIT	CENTRAL AND LOWER STRUCTURE GASKET AND SEAL KIT
3412C	60M1-UP	4W3920	4219722	4363145	2810029	2196544	4198601	4218976	4211305	6V0237	N/A	4195116	4545379	4200925
		4N2247												
		1790770												
		1855890												
		7W7584												
		1790771												
		1243400												
		1302549												
		1VW0733												
		1790769												
	9BR1-UP	1793232	4219723	4361678		4208545	4199849	N/A	N/A	4198222	4198215			
		1790775												
		1790773												
		1790778												
		1835416												
	3JK1-UP	1433523	4219726	4361747		1768167	4204888	4202031	N/A	4204427	4200668	4204422	4200667	
1433522														
1054832														
1054833														
1326105														
1326109														
81Z1-UP	9Y1476	4288745	4288742	2196544	4198601	4208545	4199849	N/A	N/A	4198222	4198267	4198215		
3412C Marine GS	4121-UP	2385363	4219723								4361678		4545379	4197318
		2385357												
		2385355												
		2385359												
3412C PEEC	1EZ4389-UP	1483588	4219721	4361749	2196543	4204325	4202031	N/A	4206429	4198215				
		1483596												
		1483589	4219724	4362788										
		1483597												
3412D	REA 1-UP	2388191	4219727	4361748	4200923	4204502	4218976	4211305	6V0237	4200926	4204866	4200925		
3412E	9KS 1-UP	1778882			4219725	4361745	2037767	1768167	4204423	4206457	4205696	N/A	4204427	4199903
		1778881												
		1539100												
		1539101												
	9PW1-UP	1833882	4219728	4366847	2196544	4204961		4208612	4204426	6V0237	N/A	4200952	4198267	4200951
		1765664												
		1765733												
		1833885												

Select as many gasket and seal kits as you need – also consider adding key components necessary to improve overhaul effectiveness, including:

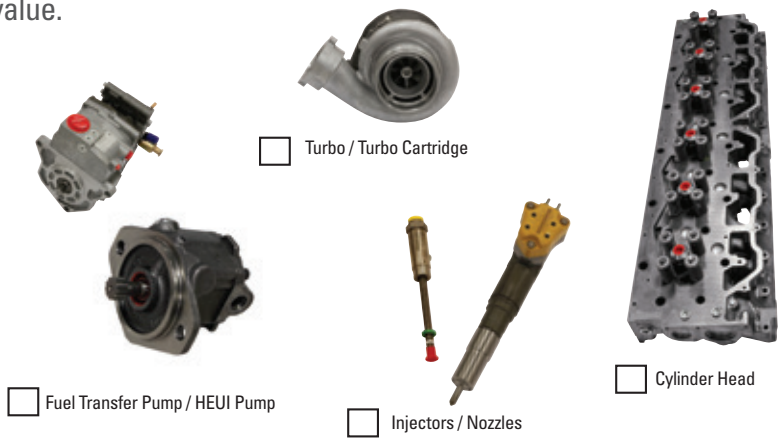
- Oil filter
- Fuel filter
- Studs
- Thermostat
- Lock nuts
- Bushings
- Washers
- Plugs

ADVANCED LEVEL

ADDITIONAL BENEFITS

Keep all the features from our Foundational Level, but with our Advanced Level, you add parts specific to your engine needs. Customize your overhaul – and increase your value.

TOP END OVERHAUL – ADVANCED LEVEL	
Top End Overhaul Foundational Kit	✓
Cylinder Head	Choose the FOUNDATIONAL LEVEL option that is right for you, PLUS choose ONE or MORE primary components from this list*
Fuel Transfer Pump / HEUI Pump	
Injectors / Nozzles	
Turbo / Turbo Cartridge	
Ask your dealer for promotions specific to your ADVANCED LEVEL solution.	



Choose **ONE OR MORE** components ✓

MAJOR OVERHAUL – ADVANCED LEVEL	
Major Overhaul Foundational Kit	✓
Cylinder Head	Choose the FOUNDATIONAL LEVEL option that is right for you, PLUS choose ONE or MORE primary components from this list*
Cylinder Packs	
Fuel Transfer Pump / HEUI Pump	
Injectors / Nozzles	
Oil Cooler	
Oil Pump	
Turbo / Turbo Cartridge	
Water Pump	
Ask your dealer for promotions specific to your ADVANCED LEVEL solution.	



Choose **ONE OR MORE** components ✓

For your most effective overhaul, we recommend inspecting, reconditioning or replacing additional components, including:

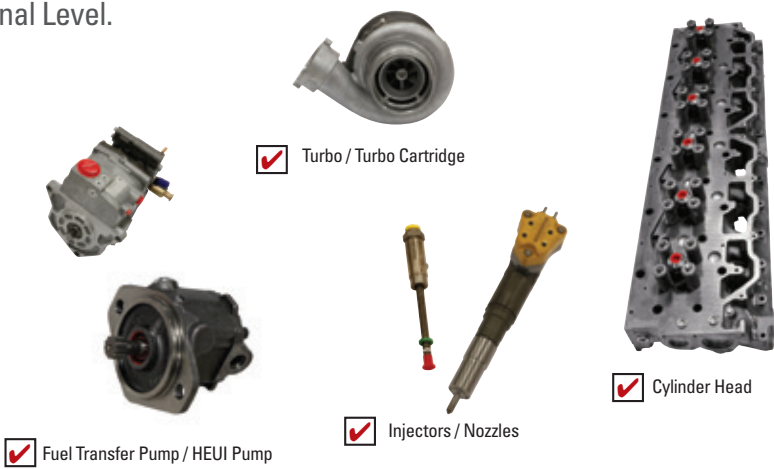
- Rod bearings
- Thrust plates
- Main bearings
- Hoses
- Connectors

OPTIMAL LEVEL

MAXIMUM BENEFITS

Bring your engine to original factory specifications and performance. This is our most comprehensive overhaul solution – and our best value, including all the features and benefits from our Foundational Level.

TOP END OVERHAUL – OPTIMAL LEVEL	
Top End Overhaul Foundational Kit	✓
Cylinder Head	✓
Fuel Transfer Pump / HEUI Pump	✓
Injectors / Nozzles	✓
Turbo / Turbo Cartridge	✓
Choose the FOUNDATIONAL LEVEL option that is right for you, PLUS choose ALL additional primary components from this list*	
Ask your dealer for promotions specific to your OPTIMAL LEVEL selection.	



Choose **ALL** components ✓

MAJOR OVERHAUL – OPTIMAL LEVEL	
Major Overhaul Foundational Kit	✓
Cylinder Head	✓
Cylinder Packs	✓
Fuel Transfer Pump / HEUI Pump	✓
Injectors / Nozzles	✓
Oil Cooler	✓
Oil Pump	✓
Turbo / Turbo Cartridge	✓
Water Pump	✓
Choose the FOUNDATIONAL LEVEL option that is right for you, PLUS choose ALL additional primary components from this list*	
Ask your dealer for promotions specific to your OPTIMAL LEVEL selection.	



Choose **ALL** components ✓

For your most effective overhaul, we recommend inspecting, reconditioning or replacing additional components, including:

- Rod bearings
- Thrust plates
- Main bearings
- Hoses
- Connectors

* Contents will vary based on engine configuration.

EXTENDED SERVICE COVERAGE
(ESC)

**SELECT INDIVIDUAL
COMPONENT COVERAGE
AVAILABLE**

On commercial engines only.

Contact your Cat dealer for details.

www.catmarinesupport.com

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