HERO OF THE RIVER

INTEGRATED SOLUTIONS FOR THE INLAND WATERWAYS
With a century of experience designing engines and propellers—we know the challenges Inland waterway operators face on a daily basis. The goal is productivity. Success is measured with the lowest operating cost.

**MAKE EVERY TON-MILE COUNT**

**IMPROVE YOUR PRODUCTIVITY**
Integrated Emissions Solutions for IMO III/US EPA Tier 4 Final
- Drives improved fuel efficiency
- Maximizes customer uptime
- Time saving maintenance intervals

**Marine Asset Intelligence**
- Advanced Predictive analytics with expert advice
- Optimized vessel operations
- Easy to read reports and dashboards
- Enables regulatory compliance management

**SAVINGS BEYOND DIESEL**
- LNG propulsion systems
- Hybrid solutions
- HFO capable engines

**WORLD CLASS PRODUCT SUPPORT—WHEREVER YOU GO**
- Cat® Dealer service and support covering the world’s inland waterways
- Customized parts kits
- DNV-GL dealer certified service
- One-Year Parts Warranty
- Cat Reman parts options available (environmentally friendly cost savings)

**CATERPILLAR TOOLS FOR YOUR SUCCESS**

**CAT EVA (ENGINE VALUE ANALYSIS)**
Operation profile specific tool for comparing competitive engine performance.
Aids in standardizing fuel specifications for accurate fuel consumption comparisons.
Make an educated decision on your engine choice.

**CAT ECE (EQUIPMENT COST ESTIMATOR)**
Cat/MAK engine model specific life cycle cost analysis.
Calculate life cycle cost over asset life.
Easy to understand reports.

**CAT SELECT**
Easily compare various engine and propulsion options.
Diesel, LNG and Hybrid propulsion system comparison.
Analyze maintenance, fuel costs, and CAPEX.
Choose the solution that best fits your operating profile.

**EMD TCO (TOTAL COST OF OWNERSHIP)**
Cost analysis over the anticipated life of the engine.
Comprehensive maintenance budget year by year.
Highlights EMD maintenance advantages of no mid-life overhaul and no full oil changes.

**ENGINE SELECTION PROCESS**

**SAVINGS BEYOND DIESEL**
- LNG propulsion systems
- Hybrid solutions
- HFO capable engines

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**Caterpillar can find the best solution for your operation. We have done thousands of evaluations saving our customer's billions of dollars. Contact your dealer for a customized analysis built for you.
SCR ENVIRONMENTAL STEWARDSHIP

The marine specific solution designed by Caterpillar includes Selective Catalytic Reduction (SCR) technology to meet the strict IMO Tier 4 emission standards. The SCR solution offers several advantages.

- **Increased Efficiency**: SCR enables increased fuel efficiency, which translates to lower owning and operating costs.
- **Flexibility**: Designed to be installed in new or existing vessels, offering installation flexibility for simplified vessel operations.
- **Performance**: SCR offers improved fuel efficiency and durability over other solutions.
- **Environmentally Friendly**: SCR solutions are designed to minimize environmental impact through reduced emissions, contributing to the overall environmental sustainability of marine operations.
- **Simplified Maintenance**: The SCR system offers maintenance and smart features for easy installation, minimized maintenance, and a high level of serviceability.
- **Operational Reliability**: Caterpillar Marine also offers hybrid systems to tailor its marine engines to your needs, ensuring responsive, fast response time that can be counted on to meet your need for power and productivity instantly.
- **Longevity**: Marine diesel and gas engines are built for the Inland Waterways.
- **Power Range**: Caterpillar offers the broadest power range of marine diesel and gas engines for the world's leading emissions and the toughest waterways. Long hours and variable conditions require dependable, fuel-efficient power to keep your vessels moving. Caterpillar ensures that your vessels meet global requirements without sacrificing the future. With power systems ranging from Cat C1.5 to Cat C175, Caterpillar marine diesel and gas engines are built to match your power needs. For prime, continuous, emergency or standby power service, our generator sets, auxiliary engines are built to match your power needs.
- **Control System**: The Caterpillar Marine propulsion system is powered by your need for power and productivity instantly.
- **Asset Intelligence**: We've specially designed our control system to take advantage of the latest microprocessor technology, MPC 800 Control and monitoring system is easy to use, providing operator with clear information and full control on all propellers, thrusters and engine supplementary systems.
- **Performance**: MPC 800 can easily be configured to use, providing operator with clear information and full control on all propellers, thrusters and engine supplementary systems.
- **Data and Insights**: We know the location, health, and efficiency of your vessels and predict problems before they happen using our sophisticated control system that makes compliance reporting easier with better data and inspections to prevent downtime. Increase uptime by scheduling services, reduce operating costs and make compliance reporting easier with better data and inspections to prevent downtime.
- **World-Class Standards**: Caterpillar Marine diesel and gas engines are built to match your power needs. For prime, continuous, emergency or standby power service, our generator sets, auxiliary engines are built to match your power needs.
- **Fuel Efficiency**: Our engines are designed for the Inland Waterways and variable conditions require dependable, fuel-efficient power to keep your vessels moving. Caterpillar ensures that your vessels meet global requirements without sacrificing the future.
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**THE SIMPLICITY OF SCR**

[Diagram of SCR system components]

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**POWER RANGES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CYLINDERS</th>
<th>PROPULSION</th>
<th>GENERATOR SET</th>
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<tbody>
<tr>
<td>VM 46 DF 12, 16</td>
<td>10800 - 15440 bkW</td>
<td>10357 - 14807 ekW</td>
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<tr>
<td>M 46 DF 6, 7, 8, 9</td>
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<td>M 43 C 6, 7, 8, 9</td>
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<td>5754 - 9063 ekW</td>
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<td>M 34 DF 6, 8, 9</td>
<td>3060 - 4770 bkW</td>
<td>2934 - 4574 ekW</td>
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<tr>
<td>VM 32 C/E 12, 16</td>
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<td>2762 - 4747 ekW</td>
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<td>1669 - 3024 ekW</td>
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<td>979 - 1871 ekW</td>
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<td>C175 16</td>
<td>2001 - 2550 bkW</td>
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<td>272 - 298 bkW</td>
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<td>C18 6</td>
<td>339 - 533 bkW</td>
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<td>3406 6</td>
<td>272 - 298 bkW</td>
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<td>254 - 266 bkW</td>
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<td>C4.4 4</td>
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<tr>
<td>C1.5 3</td>
<td>N/A</td>
<td>10 - 13 ekW</td>
<td></td>
</tr>
</tbody>
</table>
WE’RE HERE TO HELP

To move products up and down the river, your inland river vessel needs to be as ready as you are. Inland river vessels need power on demand to navigate currents or perform flanking moves to keep people and cargo safe. That’s why Caterpillar Marine developed an environmentally responsible range of solutions, tailored to the demands of your business, to deliver performance, reliability and efficiency.

Through Cat Financial we offer a variety of customizable loans and leases to purchase Cat equipment and solutions. We have the industries largest global sales and service support network giving you the service and availability you’ve come to trust. Our goal is your success, because you deserve nothing less. Together we can work out the perfect solution that is fully customized to you and your needs.

TALK TO US