
SEAWORTHY ENGINE FOR ALL MARINE FUNCTIONS

At Mantrac, we measure marine engine uptime in years and downtime in hours. This means that whatever your specific requirements and applications, you get proven reliability and the highest efficiency.

NAVIGATE ALL PARAMETERS FOR OPTIMAL OPERATIONS

All commercial and non-commercial vessels, from small tugboat to massive cruise liners, benefit from a reliable engine.



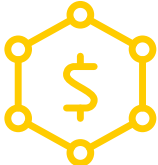
Fuel efficiency

Minimal refuelling for maximum uptime and low operational costs



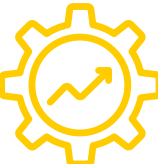
Emissions compliance

Meeting all international emissions standards to save time and money on compliance checks



Engine performance

Technology and configurations for performance across a range of speeds



Easy maintenance

Accessible after-sales services for smooth running and lowest possible maintenance costs



POWERING EVERY MARINE APPLICATION

Cat® marine engines successfully serve applications across industries, with a proven and predictable track record of decades-long operation and a minimal total cost of ownership.

Industries served



Offshore: excellent position-keeping, designed to maximise space & reliability



Fishing: propulsion solutions for trawlers, including high towing loads, low trawling speeds



Tug and salvage: for the heaviest loads—ideal bollard pull, low load factors and annual hours



Cargo engines: for deadline-driven operations—high fuel efficiency and high load factors



Pleasure craft: For smooth starts, rapid acceleration, and consistent cruise speeds

POWERING EVERY MARINE APPLICATION

Cat[®] marine engines successfully serve applications across industries, with a proven and predictable track record of decades-long operation and a minimal total cost of ownership.



Cat marine engines are:



Customisable and upgradable

- Customisable Technology
- Flexibility with configurations
- Tailor-made fuel input options



Certified for emissions and quality standards

- EPA Tier 3 compliant for all ratings
- IMO II and EU IWW compliant for all ratings
- Approved for Marine Classification Society standards



Cost efficient

- Optimal fuel consumption
- Engine efficiency



Easily maintained and serviced

12-year standard warranty and longer interim periods between servicing

SMOOTH SAILING WITH CAT TECHNOLOGY

Cat marine systems from Mantrac offer excellent value on total cost of ownership because of various technologies and configurations, customised for each customer's needs.



Technology

ACERT™: Cat technology combining cutting-edge electronics, air system management and fuel injection for improved response, fuel efficiency & lower gas emissions

Separate Circuit After-Cooled (SCAC): Higher efficiency & lower intake air to increase output, minimise emissions

Centralised control: Panel controls for seamless operation and control of engines, thrusters and propellers [e.g. MPC 800]

Marine asset intelligence: Data analytics to predict and prevent issues and facilitate proactive maintenance [e.g. Multi-Engine Optimiser (MEO)]



Customisability and upgradability

A range of SCAC Engines:

- Heat Exchange or Keel Cooling Systems
- Three pump or two pump configurations

Single turbo configurations for all ratings

Future-ready design: allows for upgradability with technology, like sea water cooling systems

A STEADY COURSE FOR THE LIFE OF YOUR VESSEL

Mantrac is committed to your marine systems: partner with us to keep your operations in shipshape, from installation to decades after.



Consulting

We identify the best solution for your budget, output requirements, and vessel needs:

- Fuel weight capacity
- Design and average speed
- Engine room space and layout
- Manoeuvrability



Financing

Minimise upfront costs:

- Take advantage of credit and financing
- Short- and long-term rentals
- Rent-to-own plans, with 80% of paid rent applied if you purchase after renting



Expert support

Services:

- Installation using superior grade instruments for minimal wear and tear
- Routine oil sample analysis
- Preventive maintenance and team training
- Inspection and calibration
- Data analysis to overcome minor issues before they become major problems



Immediate availability

A reliable network with:

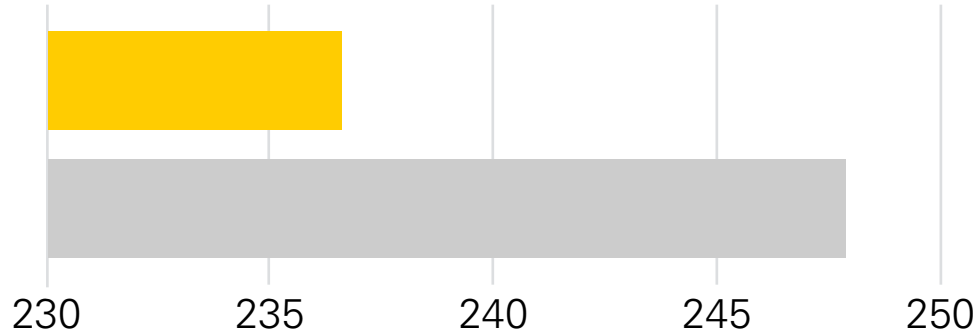
- Over 80% in-territory availability for spare parts
- Cat certified service teams across three continents and 10 countries
- Short delivery time plus fast and professional installation

OUTPERFORMING THE COMPETITION AT SEA

Cat marine engines outperform competitors, with low weight, optimum dimensions and higher fuel efficiency at the same rating. A comparison of the C18 SCAC ACERT and Cummins QSK 38 confirms this.

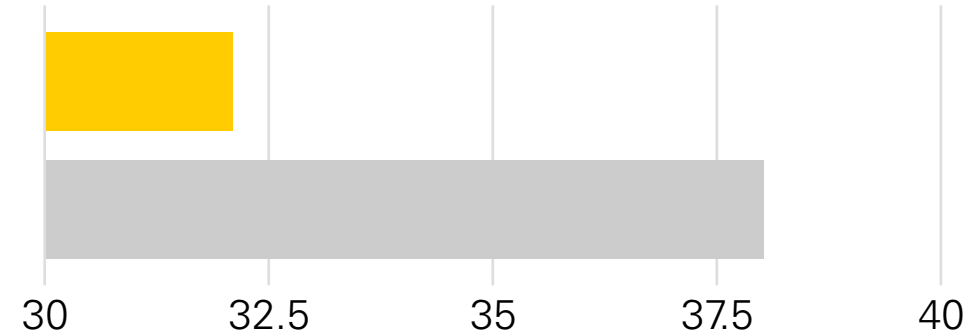
C18 SCAC ACERT Cummins QSK 38

Fuel consumption at rated speed (l/h)



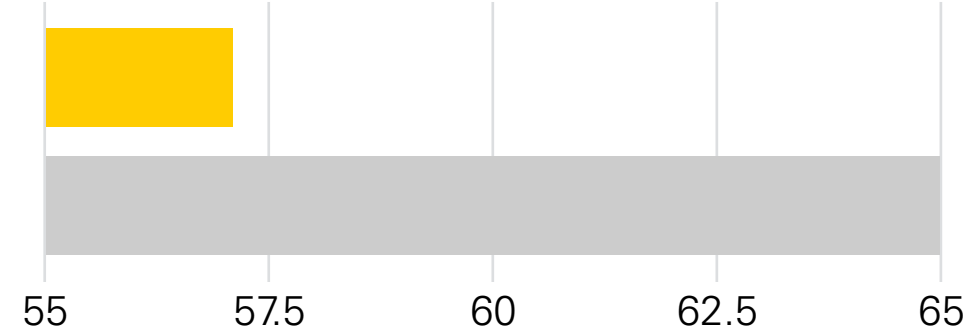
Lower fuel usage rate = Lower engine running costs

Engine displacement (litres)



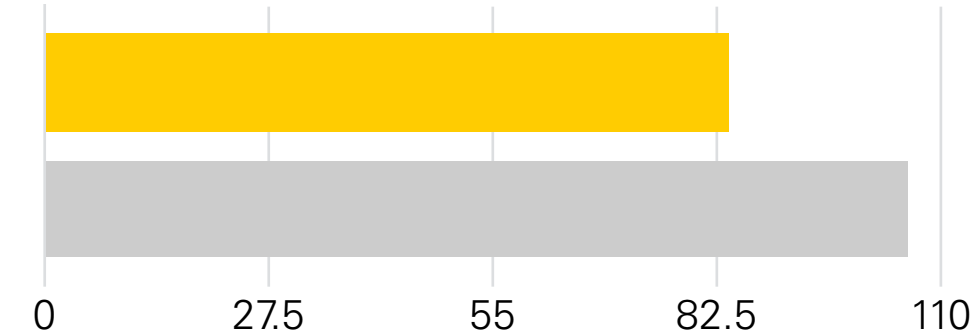
Lower engine displacement = Less fuel consumption

Width (inches)



Smaller width and length of the engine = Optimal use of space

Length (inches)



Source: 8-C18 ACERT Tier 3 Commercial Sales Presentation

OUTPERFORMING THE COMPETITION AT SEA

While reaching impressive speeds and power outputs, Cat engines also have the highest certifications, low weight and optimum dimensions, as seen in comparison with Volvo, Mitsubishi and Cummins.

C18 SCAC ACERT

**Highest overall speed & power for its weight and certifications
EPA Tier 3 and IMO II**

Volvo D16 MH

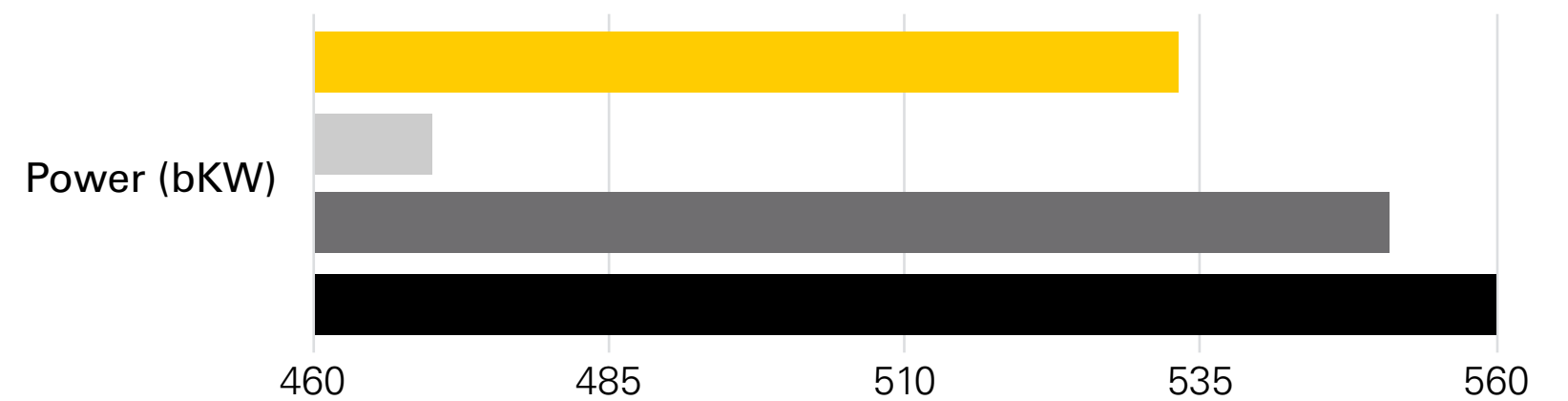
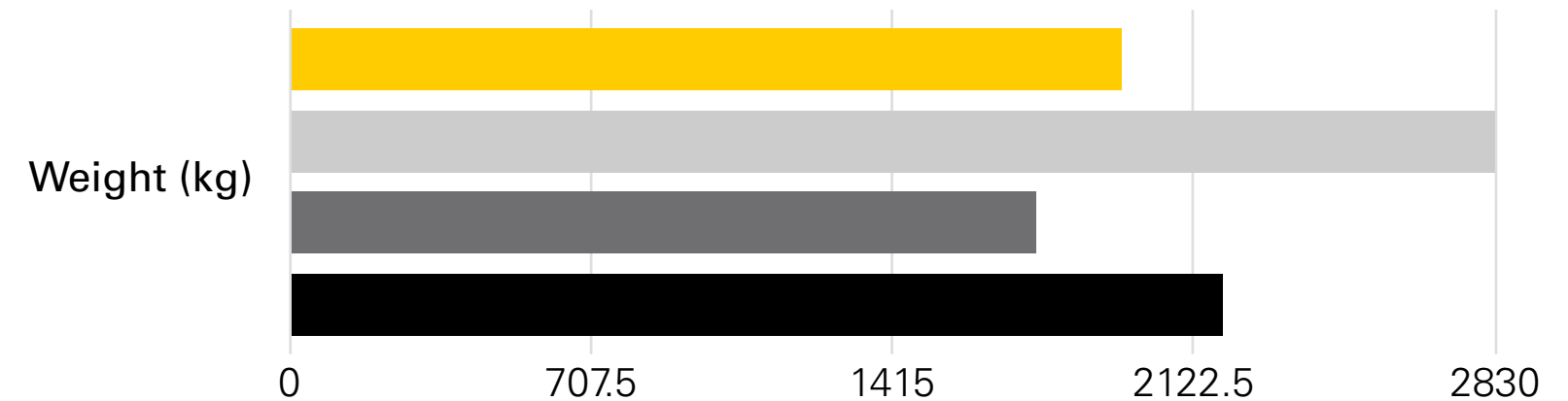
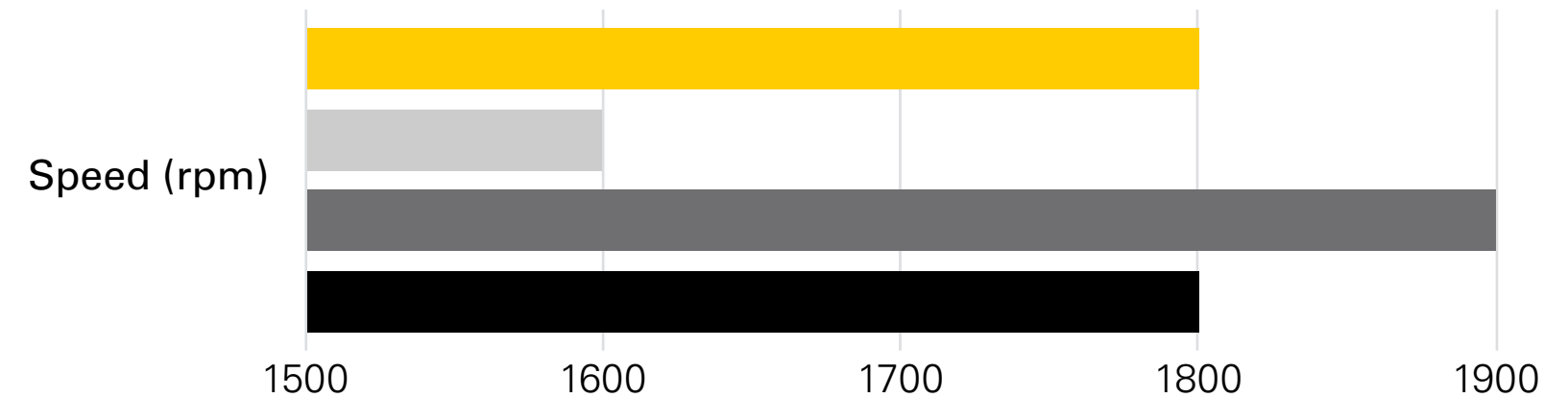
Higher speed & power, bulky
EPA Tier 3 and only IMO I

Mitsubishi S6R -Y3MPTAW

Low speed, high power, bulky
EPA Tier 3 and IMO II

Cummins QSK19 MCRS

High speed & power, heavier
EPA Tier 3 and IMO II



1.EPA Tier III certified engines are compliant with the toughest emissions standards, but also make more efficient engines.

2.Optimum weight minimises wear and tear for your vessel and improves engine efficiency.

RELATED ASSETS

EXPLORE OUR POWER SOLUTIONS DEDICATED TO MARINE APPLICATIONS

COMMERCIAL MATERIAL

Get an overview of the entire marine power solution range by viewing our brochures and videos.

Discover Now

PROJECT REFERENCES

See how Mantrac has successfully delivered power solutions for customers in the marine industry.

Explore

TECHNICAL DOCUMENTS

Understand the types of marine power solutions that are ideal for your specific operational needs.

Learn More

PRODUCT SPECIFICATIONS

Get all the details on prospective marine power solutions for your operations.

View Now