

# Sea ahead. We believe in the power of Digital. **MAN PrimeServ**

We live in challenging times. Future-proofing and digital monitoring is becoming more and more crucial. To safely navigate through the uncertain seas of tomorrow. It needs technologies of tomorrow. Our digital solutions help you stay competitive, fast and safe in the everchanging Marine sector.

**For us it's monitoring performance.  
For you it's maximizing output.**

Whether you operate a vessel, fleet, or plant, the success of your business rests upon the hardware that supports it.

It is crucial that your MAN equipment and systems perform flawlessly – and this is where PrimeServ Assist comes in.

PrimeServ Assist is our continuous monitoring and advisory service powered by MAN CEON, the backbone of our digital services offering, which is securely linked to your equipment. You can optimize performance and uptime through real-time data, cutting-edge AI, and OEM, expert support.



#### Engine optimization

PrimeServ Assist gives you operational insights and proactive advice to optimize performance.



#### Reduced downtime

PrimeServ Assist is all about maximizing uptime and making maintenance scheduling more predictable.



#### Reduced emission

Combined with the latest propulsion and emission technologies, PrimeServ Assist can help you meet your emission goals.



#### Strategic tool

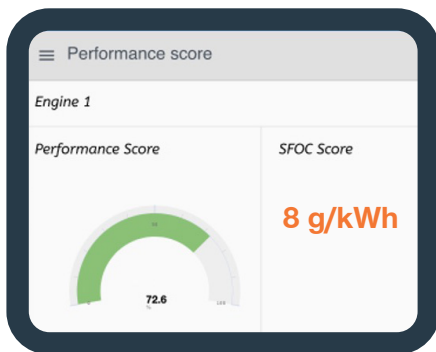
With continuous, comprehensive and near real-time machine monitoring, PrimeServ Assist allows smooth engine and fleet operation.

# Discover our new digital feature of PrimeServ Assist!

## Performance score

The Performance Score provides a strategic and easy overview of the engine performance. It gives the user one single key figure that reflects the overall engine performance – derived via various parameters. The Performance Score is calculated based on 6 sub scores. It gives the indication of which part of the engine needs attention and if immediate action is recommended.

### How it looks



### Performance sub scores

- Scav control
- Engine balance
- Engine tuning
- Load control
- Turbo charger efficiency
- Heavy running

### Performance sub scores

#### Scav control:

With temperature and pressure we evaluate the scavenge air system.

#### Engine balance:

We evaluate how the engine is balanced between the cylinders using  $p(\text{comp})$ ,  $p(\text{max})$  and  $P(i)$ .

#### Engine tuning:

We evaluate  $p(\text{max})$  and  $p(\text{comp})$  against the shoptest.

#### Load control:

We evaluate the expected load vs. the measured load.

#### Turbo charger efficiency:

We evaluate How well the Turbo Charger performs based on rpm and temperatures.

#### Heavy running:

We measure how heavy/light the propeller runs.

**New!**

#### Specific Fuel Oil Consumption:

Our newly developed SFOC score represents excess fuel consumption in grams per kWh. It shows you how much you loose due to excess fuel consumption and the engine of not running optimally. It shows you how much excess fuel consumption you loose due to the engine not running optimally.

## How it works

# 1

Relevant data is generated, approx. 30 data points.

# 2

The data is analyzed focusing on 6 sub values. Each targeting a specific part of the engine.

# 3

The performance score is calculated giving a clear and easy indication of the engine performance.

# 4

The index gives an overview where improvements can be done and where immediate action is needed.

# 5

The remote operations center monitors all engines 24/7. They are able to assist the vessels in bringing the engine back into optimal condition.

### MAN Data Solutions

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