

# PRODUCT SPECIFICATIONS FOR VM 43 C

<b>Power Range</b>	12000 - 16800 kW
<b>Speed Range</b>	500-514 rpm
<b>Emissions</b>	IMO II
<b>Aspiration</b>	Turbocharged
<b>Bore</b>	17 in
<b>Stroke</b>	24.02 in
<b>Rotation from Flywheel End</b>	Counterclockwise / Clockwise
<b>Configuration</b>	12, 16 cylinder
<b>Swept Volume</b>	5406.7 in <sup>3</sup>
<b>Minimum Dry Weight</b>	352739 lb
<b>Minimum Length</b>	387.5 in
<b>Maximum Length</b>	470.2 in
<b>Minimum Height</b>	201.7 in
<b>Maximum Height</b>	200.7 in
<b>Minimum Width</b>	153.1 in
<b>Maximum Width</b>	158.5 in

## **VM 43 C STANDARD EQUIPMENT**

### **AIR INLET SYSTEM**

Air intake silencer / filter

### **CONTROL SYSTEM**

Speed governor cabinet incl. load sharing unit (for multiple engine plant only)

Protection system (external cabinet)

Serial link interface (MODbus/canbus)

Start/stop panel

Protection panel (emerg. Stop, override, reset push buttons)

### **COOLING SYSTEM**

2-stage charge air cooler

HT cooling water pump (engine driven)

Electronic cooling water preheater

### **EXHAUST SYSTEM**

Turbocharger at flywheel end

Exhaust gas expansion joint

Exhaust gas insulated manifolds

### **FUEL SYSTEM**

Fuel indicator filter

Fuel circulating pump (electronically driven / MDO/MGO only)

Fuel pressure valve (separate / MDO/MGO only)

### **INSTRUMENTATION**

Local control panel

Pressure and temperature indicator

Control push buttons and lamps

Emergency stop lever

### **LUBE SYSTEM**

Lube oil pump (engine driven)

Pressure regulating valve

Lube oil safety filter

Lube oil self-cleaning filter

Lube oil plate cooler (separate)

Dry sump

## **MOUNTING SYSTEM**

Rigid mounting

High flexible coupling

## **STARTING SYSTEM**

Starting air valve

Electrical barring device

## **GENERAL**

Torsional Vibration Calculation (TVC)

Lifting device (rental)

## **VM 43 C OPTIONAL EQUIPMENT**

### **AIR INLET SYSTEM**

Air intake transition piece

Expansion joint

Silencer / filter

Air inlet shut-off valve

### **CONTROL SYSTEM**

Engine alarm system

Electronic speed governor

Remote control system

Starter for electric driven pumps

24 DC UPS

Remote indicators (start air pressure, engine speed, etc.)

### **COOLING SYSTEM**

HT/LT pump (double pump/engine driven)

HT cooling water pump (electric driven)

LT cooling water pump (electric driven)

Sea water cooling pump (electric driven)

FW/SW plate cooler

Temperature control valve

Steam/thermal oil cooling water preheater

### **EXHAUST SYSTEM**

Turbocharger at counter-flywheel side

Silencer (with or without spark arrester)

### **FUEL SYSTEM**

HFO treatment and supply modules

HFO supply and booster pumps (electrical driven)

HFO self-cleaning automatic filter

Mixing tank

HFO pressure regulating valve

HFO final preheater

HFO viscosity control device

Fuel oil cooler

## **LUBE SYSTEM**

Lube oil treatment and combined modules

Lube oil pump (electrical driven)

Temperature control valve

Pre-lubricating oil pump (electrical driven)

## **MOUNTING SYSTEM**

Resilient mounting

Flexible pipe connections

## **STARTING SYSTEM**

Starting air receiver

Starting air compressor

## **GENERAL**

PTO shaft on counter flywheel side

Engine PTO coupling

Reduction gear

Reduction gear PTO coupling

PTO alternator

Cat Propulsion Systems

