

PRODUCT SPECIFICATIONS FOR VM 46 DF

Power Range	10800 - 15440 kW
Speed Range	500 / 514 rpm
Emissions	IMO II in diesel mode / IMO III in gas mode
Aspiration	Turbocharged
Bore	18.11 in
Stroke	24.02 in
Rotation from Flywheel End	Counterclockwise / Clockwise
Configuration	12,16 Cylinder
Swept Volume	6181.7 in ³
Minimum Dry Weight	352740 lb
Minimum Length	387.7 in
Maximum Length	470.2 in
Minimum Height	200.7 in
Maximum Height	201.7 in
Minimum Width	153.1 in
Maximum Width	158.5 in

VM 46 DF STANDARD EQUIPMENT

AIR INLET SYSTEM

Air intake silencer / filter

CONTROL SYSTEM

Load sharing unit

Modular Alarm Control Protection System (MACS)

Speed governor

COOLING SYSTEM

Electric cooling water preheater

HT cooling water pump (engine driven)

2-stage charge air cooler

EXHAUST SYSTEM

Exhaust gas expansion joint

Exhaust gas insulated manifolds

Turbocharger at flywheel / counter-flywheel end

FUEL SYSTEM

Fuel circulating pump (electric driven / for MDO/MGO only)

Fuel indicator filter

Fuel pressure valve (separate / for MDO/MGO only)

GAS SYSTEM

Gas valve unit

INSTRUMENTATION

Control push buttons and lamps

Emergency stop lever

Local control panel

Pressure and temperature indicator

LUBE SYSTEM

Dry sump

Lube oil plate cooler (separate)

Lube oil pump (engine driven)

Lube oil safety filter

Lube oil self-cleaning filter

Pressure regulating valve

MOUNTING SYSTEM

High flexible coupling

Rigid mounting

STARTING SYSTEM

Electrical barring device

Starting air valve

GENERAL

Lifting device (rental)

Torsional Vibration Calculation (TVC)

VM 46 DF OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Air inlet shut-off valve

Air intake transition piece

Expansion joint

Silencer / filter

CONTROL SYSTEM

Engine alarm system

Remote control system

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

Starter for electric driven pumps

24 DC UPS

COOLING SYSTEM

Cooling water preheater steam / thermal oil / electrical

FW/SW plate cooler

HT cooling water pump (electric driven)

LT cooling water pump (electric driven)

Sea water cooling pump (electric driven)

Temperature control valve

EXHAUST SYSTEM

Exhaust gas ventilation module

Silencer (with or without spark arrester)

FUEL SYSTEM

Fuel oil cooler

HFO final preheater

HFO pressure regulating valve

HFO self-cleaning automatic filter

HFO supply and booster pumps (electrical driven)

HFO treatment and supply modules

HFO viscosity control device

Mixing tank

GAS SYSTEM

Gas flowmeter

LNG vaporizing unit

LUBE SYSTEM

Lube oil centrifuge

Lube oil pump (electrical driven)

Lube oil treatment and combined modules

Pre-lubricating oil pump (electrical driven)

Temperature control valve

Wet sump with dip stick

MOUNTING SYSTEM

Flexible pipe connections

Resilient mounting

PROPULSION SYSTEM

Control system

Thrusters

STARTING SYSTEM

Starting air compressor

Starting air receiver

GENERAL

Engine PTO coupling

PTO alternator

PTO shaft on counter-flywheel side

Reduction gear

Reduction gear PTO coupling

