

## STANDARD EQUIPMENT

ENGINE type: S6A3 MPTA

### **Fuel System**

Fuel feed pump  
Change over type fuel filters  
Fuel injection pump  
Shielded fuel injection lines

### **Lubricating Oil System**

Oil pressure alarm switch  
Full-flow lubricating oil filters (change over type)  
By-pass filter (change over type)  
Oil cooler with thermostat

### **Cooling System**

Fresh water pump  
Thermostats with by-pass

### **Electric System**

Starter motor  
Alternator 30 Amps

### **Inlet and Exhaust System**

Turbo chargers MITSUBISHI  
Inlet air main fold with air cleaner  
Dry type exhaust main fold with vertical outlet, counter flange

### **Other Standard Equipment**

Hydraulic governor  
Mounting brackets  
Stamford type HMC  
Engine and alternator are mounted on a welded steel base frame, installed on vibration dampers

## TECHNICAL DATA

Engine	Power	Cylinders	Diameter x Bore	Total Cylinder Capacity	Injection System	Starting System	Fly head	Dry Weight
MAS 450	50 Hz –478 Kva –1500 Rpm 60 Hz –374 Kva –1200 Rpm 60 Hz –552 Kva -1800 Rpm	6 cylinders	150x175 mm	18.5 liters	Direct	24 Volts bi-polar	SAE 14 / SAE 1	4100 Kg

## Options

### **Classification**

BV, LRS, DNV classification (and other). IMO classification

### **Engine cooling system**

Heat exchanger fresh water / raw water (turbo air or combined)  
Plate cooler  
Box cooler  
Keel cooling  
Mounted seawater pump  
Electric seawater pump

### **Exhaust**

Flexible expansion joint  
Silencer 22 db or 35 db or others  
Spark-arrestor

### **Lubricating oil system**

Manual oil drain pump  
Electric oil drain pump  
Pre-lubricating pump  
Emergency oil pump

### **Starting system**

Air starting  
Electric compressor set  
Air / electrical combined starting

### **Instrumental panel**

Single- or multi-stations  
Mechanical or electronic remote control

### **Alternator**

Other brands like LEROY SOMER, etc...