



# Dixon Marine Consulting Ltd

Marine Consultants & Specialist Brokers

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## VSO-399-02 Marine Diesel Engines

4 x new and unused Caterpillar 3516B marine diesel auxiliary engines (1,383 BKW) prompt available for sale.

Offered as is where is – location Singapore

**Specification per Shipset: 4x Caterpillar 3516B Marine Diesel Auxiliary Engine, each rated 1383BkW @ 1200 rpm, with the following attachments.**

Site Condition:

Rating tolerance +/- 3%

Seawater temperature: 32 degree C

Ambient temperature @ engine inlet: 45 degree C

Recommended fuel type: No. 2-D Diesel or equivalent

### **Attachments:**

#### **Air inlet system**

Separate circuit aftercooler core, corrosion resistant coated (air side)

Air cleaner, regular duty

Dual turbochargers, 152mm (6 in) OD straight connection

#### **Control system**

Caterpillar A-III Electronic engine control, LH with electronic unit injector fuel system

Rigid wiring harness (10 amp DC power required to drive electronic control module)

#### **Classification**

BV Certificate for engine

IMO NOx GL certified and technical file

#### **Cooling system**

Oil cooler

Thermostats and housing, full open temperature 92 degrees C (198 F)

Jacket water pump, gear driven, centrifugal

Specifications given in good faith but without guarantee.  
Contact Dixon Marine Consulting Ltd +44 (0) 1263 733530



Auxiliary fresh water pump

Titanium plate type heat exchanger, JW, supply loose

Titanium plate type heat exchanger, AC, supply loose

## **Exhaust system**

Dry gas tight exhaust manifold with heat shields

Dual turbochargers with watercooled bearings and heat shields

Exhaust outlet, vertical, 203mm (8 in) round flanged outlet

2 x Exhaust flexible fitting

Exhaust expander and flange

Exhaust silencer 35dba, mild steel

## **Flywheels and flywheel housings**

Flywheel, SAE No. 00, 183 teeth

Flywheel housing, SAE No. 00

Engine rotation is CCW locking at flywheel

Torsional coupling between engine and alternator

## **Fuel system**

Duplex fuel filter, RH, with service indicators

Fuel transfer pump

Electronically controlled unit injectors

Flexible fuel line

Primary fuel filter

Racor fuel water separator, duplex

Fuel priming hand pump

Fuel solenoid and check valve

Fuel oil cooler, titanium plate type, supply loose

## **Instrumentation**

Graphical unit (Marine Power Display) for analogue or digital display of:

Engine oil pressure

Engine water temperature

Fuel pressure

System DC voltage

Air inlet restriction

RH & LH exhaust temperature

Fuel filter differential

Oil filter differential

Service meter

Engine speed



Instantaneous fuel consumption  
Total fuel consumed  
Engine control switch (4 position)  
Alarms are prioritised  
Overspeed shutdown notification light  
Emergency stop notification light  
Prelube override  
Shutdown override  
Customer interface connection  
Cylinder temperature display, individual

## **Lube system**

Crankcase breather, top mounted  
Duplex oil filter, RH  
Oil filter and dipstick, RH  
Deep sump oil pan  
Oil pump, gear type  
Manual hand pump  
Centrifugal oil filter

## **Mounting system**

Rails, engine mounting, engine length, industrial type, 254mm (10 in), C-channel

## **Power take-offs**

Accessory drive  
Lower RH, lower LH  
Front housing, two-sided

## **Protection system**

A-III electronic monitoring system provides customer programmable engine de-rating strategies to protect against adverse operating conditions.

Emergency stop push button (located in electronic instrument panel)

Safety shutoff protection:

Oil pressure and water temperature (non-redundant, uses OP and WT sensors)

Overspeed (redundant and independent of engine governing system)

Crankcase explosion relief valve

Exhaust thermocouples

Alarm auto-cranking panel, supply loose

- Engine over-speed shutdown alarm
- Engine low lube oil pressure alarm
- Engine low lube oil pressure shutdown alarm



- Engine high water temperature alarm
- Engine high water temperature shutdown alarm
- Cooling water expansion tank level low
- 24 V failure alarm
- Engine fail to start alarm
- Reset button, test button, acknowledge button
- Siren, stop/start button, power on/off switch
- Voltage free relay for remote alarm connection

Wheelhouse instrument panel, drop-in type, supply loose

- Engine run indication
- Engine stop indication
- Engine start/stop button
- Common fault alarm
- Emergency stop button with cover
- Buzzer acknowledge, lamp test button
- Power switch
- Dimmer

ECR common faults alarm panel, supply loose

- Engine run indication
- Engine stop indication
- Common fault alarm
- Emergency stop button with cover
- Buzzer acknowledge, lam test button
- Power switch
- Dimmer
- Marine Power Display (MPD)

## **Starting system**

Air starting motor

Air pressure regulator

Solenoid valve for remote start

Jacket water heater 240V AC

## **Spare parts**

1 set of engine class spare parts per vessel

Start up spares per engine:

4 fuel filter element

4 oil filter element

16 bottles of corrosion inhibitor