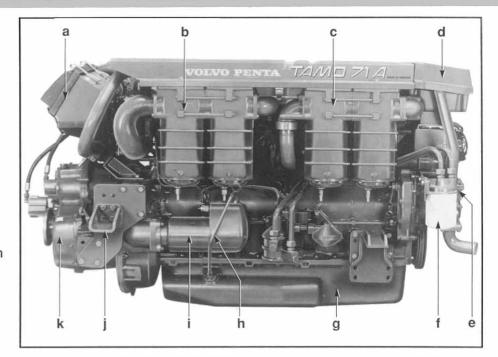
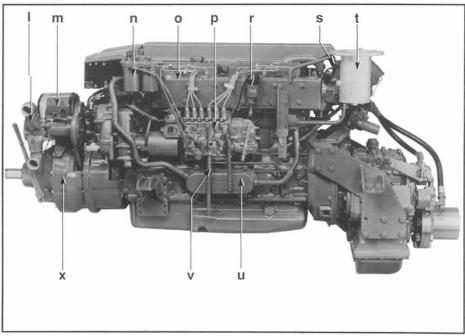
TAMD 71A

6-cylinder, 4-stroke, direct injected turbocharged marine diesel with aftercooler

Powerful, reliable and economical

- A high performance, long life engine built on the dependable in-line six design.
- · Designed for
- planing hulls with great demands on speed and acceleration characteristics.
- semi-planing workboats in Medium duty operation
- displacement workboats in Heavy duty operation
- Built for effective turbocharging with high output/fuel consumption ratio, thus achieving excellent fuel economy.
- Designed for easiest, fastest and most economical installation.
- Reduced white smoke emission during start and low load operation.
 Also reduced smoke emission during acceleration and heavy loads.
- Well balanced with steady and vibrationfree running for highest possible degree of boat comfort.
- Comprehensive programme of factory fitted equipment for perfect matching to specific customer requirements, e.g. reverse gears, PTO's, cooling systems, electrical systems.
- Simplified, thus time and cost saving, servicing. Well established service network in more than 100 countries using genuine parts and skilled personnel – minimizes non operational time and costs.





The engine shown is not an entirely standard unit.

*Optional

- a. Air filter, paper type
- b. Aftercooler, watercooled
- c. Heat exchanger
- d. Thermostat housing
- e. Sea water pump
- f. Front mounted oil filter
- g. Oil sump
- h. Oil dipstick
- i. Starter motor
- j. Adjustable rear engine mounting
- k. Reverse gear*

- I. Flush pump*
- m. Extra alternator*
- n. Twin fuel filter
- o. Water cooled exhaust manifold
- p. Injection pump
- r. Stop solenoid
- s. Turbocharger
- Exhaust elbow, dry type*
- u. Oil cooler
- v. Oil dipstick
- x. Clutch*

General data

Type designation	TAMD 71A
No of cylinders	6
Configuration	4-stroke direct-injected
tui	bocharged and charge
a	ir cooled diesel engine
Fuel grade ASTM	1D or 2D
Bore, mm (in)	104.7 (4.12)
Stroke, mm (in)	130 (5.12)
Displacement, litres (in ³)	6.73 (411)
Compression ratio	14:1
Dry weight, kg (lb)	880 (1940)
Crankshaft output, 1)	
at crankshaft speed, r/	
LD, kW (hp) (2500 r/min)	
MD, kW (hp) (2500 r/min	
HD, kW (hp) (2000 r/min) 160 (218)
Torque ²⁾	
LD, Nm (ft, lb)	1000 (738)
MD, Nm (ft, lb)	821 (606)
HD, Nm (ft, lb)	778 (574)
Spec. fuel consumption	4)
LD, g/kWh (lb/hph)	238 (0.39)
MD, g/kWh (lb/hph)	236 (0.38)
HD, g/kWh (lb/hph)	218 (0.35)

- Technical data according to ISO 3046 Standard Fuel Stop Power. Fuel 25°C (77°F), lower calorific value of 42700 kJ/kg and density of 840 g/litre.
- Torque and specific fuel consumption apply at the specified crankshaft output.

Standard equipment

Flywheel housing, flange size SAE 2
Expansion tank
Engine brackets
Freshwater cooled turbocharger and exhaust manifold
Watercooled aftercooler
Air cleaner, paper type
Fuel injection pump with centrifugal regulator and smoke limiter
Feed pump and double fine fuel filters
Oil filter of spin-on type
Fresh water cooled oil cooler
Electrical system 24 V, fully wired Incl. alarms for oil pressure and temperature

Starter motor 24 V Stop solenoid 24 V

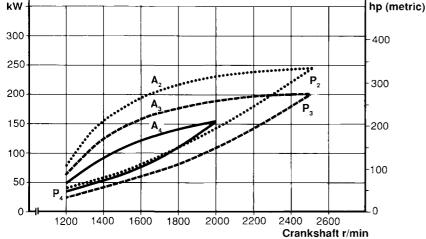
Oil pressure and temperature sender units

Electrical terminal box
Pre heater element 24 V, incl. relay
Attachment for control cable, type
333 or 443

Technical features in brief

- Engine block and cylinder heads are iron castings.
- Replaceable cylinder linings and valve seats.
- The cylinder heads incorporate a flame barrier which protects the cylinder head gasket. The cylinder heads are tightened with 20 bolts.
- Oil cooled, forged pistons, reduces carbon deposits. Keystone rings minimize oil consumption.
- Waste-gate controlled turbocharger for the degree of boost, either through the aftercooler or, at low speeds, directly through the induction manifold.
- By-pass valve between the turbocharger and aftercooler – less white smoke on starting and low load operation.
- Identical matrix for heat exchanger and aftercooler make them fully interchangeable.
- Plug-compatible electrical system with complete wiring.
- Automatic induction air heating gives reliable low temperature starting.
- Gear wheel driven coolant pump and front mounted raw water pump allows easy service.
- Front mounted easy serviceable spin-on oil filter and filler.

Propeller shaft power according to ISO 3046



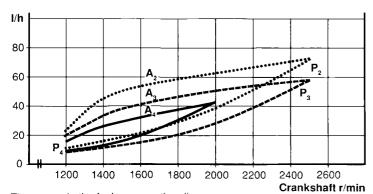
Propeller shaft power curves according to ISO 3046.

A₂=application LD A₃=application MD A₄=application HD

Calculated propeller load curves for fixed propellers.

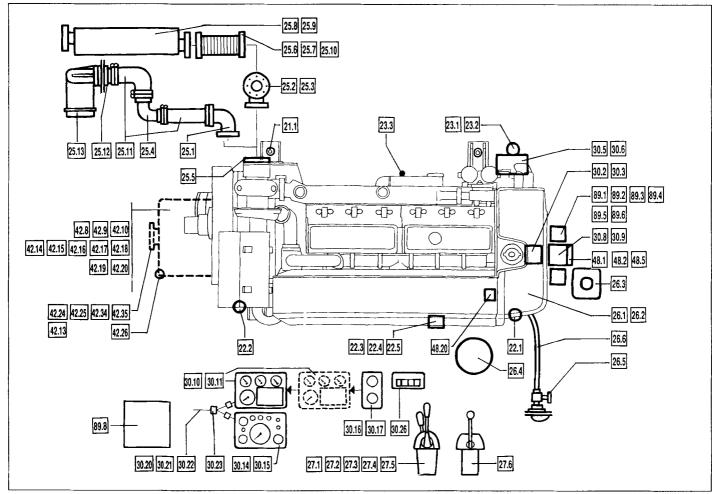
P₂=exponent 2.5 (planing boats)
P₃=exponent 2.7 (semi-planing boats)
P₄=exponent 3.0 (displacement boats)

Fuel consumption diagram



The curves in the fuel consumption diagram correspond to the power curves in the power output diagram.

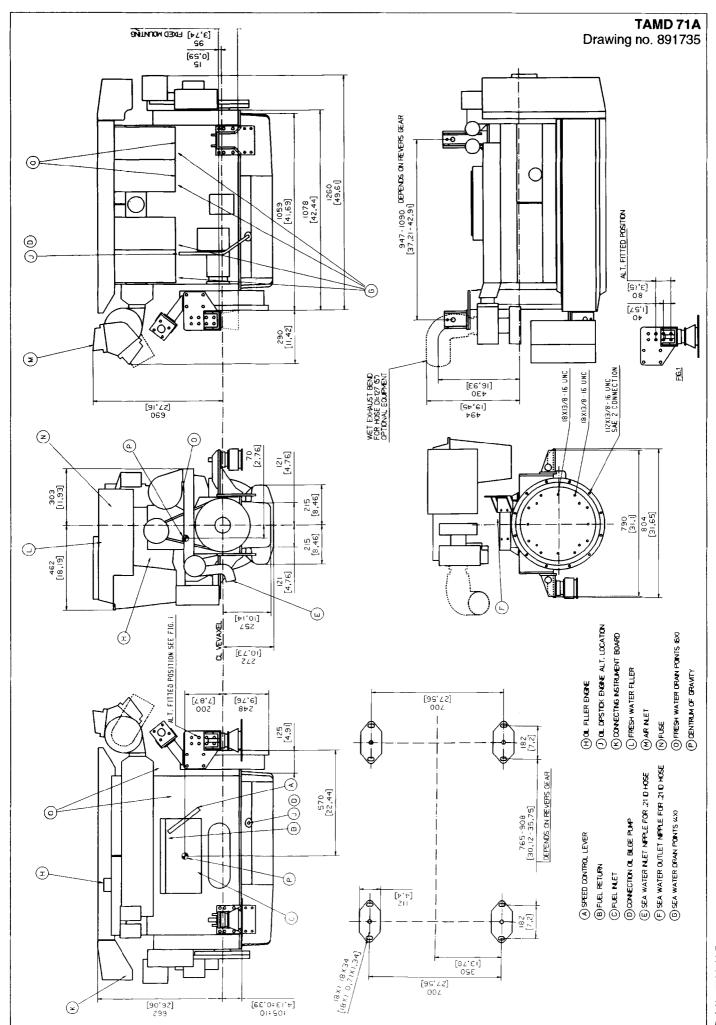
Optional equipment TAMD 71A



- 21.1 Flex. engine mounting, 4 rubber cush.
- 22.1 Oil filter, by-pass. Front mounted22.2 Oil filter kit, alternative mounting on
- 22.2 Oil filter kit, alternative mour rear end of engine
- 22.3 Oil drain pump, manually operated
- 22.4 Do., electrical 12 V
- 22.5 Do., electrical 24 V
- 23.1 Single fuel filter/water separator
- 23.2 Twin fuel filter/water separator with shift valve
- 23.3 Flexible fuel lines for engine
- 25.1 Exhaust elbow, watercooled, Ø 5"
- 25.2 Exhaust elbow, dry, Ø 4"
- 25.3 Exhaust elbow, dry, Ø 5"
- 25.4 Pipe bend for wet exhaust line \varnothing 5" 90°
- 25.5 Flange for turbocharger
- 25.6 Flexible exhaust hose, dry Ø 4"
- 25.7 Flexible exhaust hose, dry Ø 5"
- 25.8 Silencer, dry, Ø 4"
- 25.9 Silencer, dry, Ø 5"
- 25.10 Compensator, dry Ø 4"
- 25.11 Exhaust rubber hose, Ø 5" for wet exhaust line
- 25.12 Through hull fitting, Ø 5" for wet exhaust line
- 25.13 Exhaust boot, rubber Ø 5",
- for wet exhaust line
 26.1 Heat exchanger and sea water pump
- 26.2 Keel cooling equipment
- 26.3 Expansion tank, separate
- 26.4 Sea water strainer
- 26.5 Coolant water inlet with shut off valve
- 26.6 Hose for coolant water inlet
- 27.1 Twin control, Morse NB
- 27.2 Connection kit for control cables, type 333
- 27.3 Connection kit for control cables, type 443

- 27.4 Kit for dual station connection, cable 333
- 27.5 Kit for dual station connection, cable 443
- 27.6 Morse Control, model S
- 30.2 12 V/50 A alternator, incl regulator
- 30.3 24 V/60 A alternator, incl regulator
- 30.5 12 V/130 A extra alternator, incl regulator. Shipped lose.
- 30.6 24 V/100 A extra alternator, incl regulator. Factory installed.
- 30.8 24 V/100 A extra alternator, incl regulator. Factory installed.
- 30.9 Bracket for expansion tank
- 30.10 Main instrument panel, 12 V
- 30.11 Do., 24 V
- 30.14 Instrument panel, 12 V for a second control station
- 30.15 Do., 24 V
- 30.16 Extra instrument panel 12 V
- 30.17 Do., 24 V
- 30.20 Cable harness 3.0 m (9.8 ft)
- 30.21 Do., 5.0 m (16.4 ft)
- 30.22 Do., 7.0 m (22.7 ft)
- 30.23 T-connector
- 30.26 Visual alarm display
- 42.8 Reverse gear TD MG 5061A 7° angle down 1.75:1
- 42.9 Do. 2.01:1
- 42.10 Do. 2.47:1
- 42.13 Prop shaft flange for MG 5061SC and 42.8–42.10
- 42.14 Reverse gear TD MG 507-1. 1.10:1
- 42.15 Do. 1.51:1
- 42.16 Do. 1.98:1
- 42.17 Do. 2.54:1
- 42.18 Do. 2.99:1
- 42.19 Reverse gear TD 507A-1, 7° angle down 1.51:1
- 42.20 Do. 1.98:1

- 42.24 Prop. shaft flange for 42.14, 42.15, 42.16, 42.19, 42.20
- 42.25 Prop. shaft flange for 42.17, 42.18
- 42.26 Trolling valve, compl. for 42.14–42.20
- 42.34 Prop. shaft flange for MG 509 2.00:1-2.95:1
- 42.35 Prop. shaft flange for MG 509 3.83:1-4.50:1
- 48.1 Pulley for crankshaft front end
 Ø 158 mm. Four HC50 grooves.
 Ratio 1:1
- 48.2 PTO, front end. Rockford BW8" Ratio 1:1
- 48.5 PTO, front end. Rockford BW10" Ratio 1:1
- 48.20 Hydraulic pump, right hand front, facing backwards
- 89.1 Flush/Bilge pump 1 1/4", 24 V
- 89.2 Flush+Bilge pump 107, module for double installations
- 89.3 Flush/Bilge pump 2", 24 V
- 89.4 Flush+Bilge pump 109, for twin install.
- 89.5 Connection parts for flush pump
- 89.6 Connection parts for bilge pump
- 89.8 Tool kit



Ref. No. 7734792 Eng AdEra Dokument AB. Printed in Sweden Nov 1992. Svanbergs Tryckeri AB.