

TAMD63L/P

Technical Data

Engine designation.....TAMD63L/P
 No. of cylinders and configuration.....in-line 6
 Method of operation.....4-stroke,
 direct-injected, turbocharged
 diesel engine with aftercooler

Bore, mm (in.).....98.42 (3.87)
 Stroke, mm (in.).....120 (4.7)
 Displacement, l (cu.in.).....5.46 (333)
 Compression ratio.....15:1
 Dry weight TAMD63L, kg (lb).....742 (1636)
 Dry weight incl. ZF 220A, kg (lb).....821 (1810)
 Dry weight TAMD63P, kg (lb).....754 (1662)
 Dry weight incl. ZF 220A, kg (lb).....839 (1836)

Crankshaft power TAMD63L:
 Rating 3, kW (hp) 2800 rpm¹⁾.....294 (310)
 Rating 3, kW (hp) 2800 rpm²⁾.....228 (310)
 Rating 2, kW (hp) 2500 rpm²⁾.....173 (235)

Crankshaft power TAMD63P:
 Rating 4, kW (hp) 2800 rpm¹⁾.....272 (370)
 Rating 4, kW (hp) 2800 rpm²⁾.....265 (360)

Torque TAMD63L:
 Rating 3, Nm (lbf.ft) 2800 rpm²⁾.....778 (574)
 Rating 2, Nm (lbf.ft) 2500 rpm²⁾.....663 (489)

Torque TAMD63P:
 Rating 4, Nm (lbf.ft) 2800 rpm²⁾.....904 (667)

Recommended fuel to conform to.....ASTM-D975 1-D & 2-D,
 EN 590 or JIS KK 2204

Specific fuel consumption TAMD63L:
 R3, g/kWh (lb/hph) 2800 rpm²⁾.....235 (0.381)
 R2, g/kWh (lb/hph) 2500 rpm²⁾.....228 (0.369)

Specific fuel consumption TAMD63P:
 R4, g/kWh (lb/hph) 2800 rpm²⁾.....248 (0.402)

1) Fuel temperature 25°C (77°F)
 2) Fuel temperature 40°C (104°F)
 The diagrams relate to a fuel temperature of 25°C (77°F)

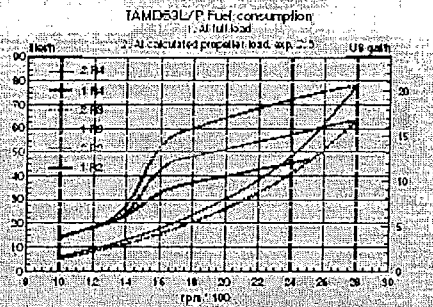
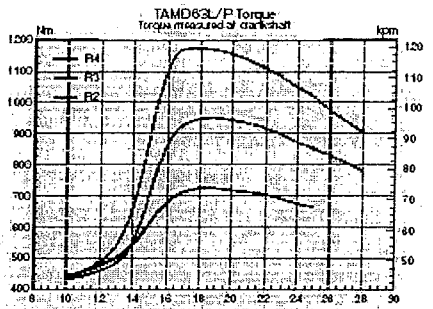
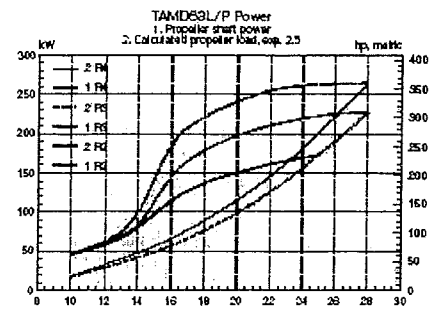
Technical data according to ISO 3046 Fuel Stop Power and ISO 8665. Fuel with a lower caloric value of 42700 kJ/kg and density of 840 g/liter at 15°C (60°F). Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.

The engines are certified according to BSE II, 5AV and IMO.

NB: The product can also be used in an application with a higher rating than stated, e.g. R3 can be used for R4 or R5.

Optional equipment:

- ### Engine
- Flexible suspension for the engine and reverse gear
- ### Lubrication system
- Bulkhead-mounted full-flow oil filter
 - Electrically operated oil drain pump
- ### Fuel system
- Fuel filter with water separator
- ### Exhaust system
- Exhaust elbow, wet
 - Exhaust riser, wet
 - Exhaust boot, wet
 - Exhaust elbow, dry
 - Silencer, dry
 - Flexible compensator, dry
- ### Cooling system
- Seawater strainer
 - Hot water outlet
 - Separate expansion tank
- ### Electrical system
- 12V 120A or 24V 100A extra alternators
 - Various instrument panels
 - Cable harness in different lengths
- ### Power transmission
- PTO crankshaft front end, type stub shaft incl. universal bracket
 - Hydraulic pump for steering and other duties
- ### Reverse gear
- ZF 220A
 - ZF 220IV
 - MG 5061A
 - MG 5062V
- ### Other equipment
- Belt guard
 - White-painted engine and reverse gear
- Contact your local Volvo Penta dealer for further information.
- Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice.
- The engine illustrated may not be entirely identical to production standard engines.



Technical Data

	TAMD41P	TAMD41H
Engine designation.....	TAMD41P	TAMD41H
Crankshaft power, kW (hp).....	147 (200)	107 (146)
Propeller shaft power, kW (hp).....	142 (193)	104 (141)
Engine speed, rpm.....	3800	2600
Displacement, l (in ³).....	3.6 (219)	3.6 (219)
Number of cylinders.....	6	6
Bore/stroke, mm (in.).....	92/90 (3.62/3.54)	92/90 (3.62/3.54)
Compression ratio.....	17.5:1	17.5:1
Dry weight with HS63A, kg (lb).....	503 (1109)	503 (1109)
Duty rating/Reverse gear:		
HS45A, RH (standard) or LH.....	R5-R3	R5-R4
Ratio: 2.43:1, 2.03:1, 1.51:1		
HS63A.....	R5-R3	R5-R1
Ratio RH (standard): 2.52:1, 2.04:1, 1.56:1		
LH: 2.53:1, 2.02:1, 1.58:1		
HS63V.....	R5-R3	R5-R1
Ratio RH (standard): 2.48:1, 2.00:1, 1.56:1		
LH: 2.53:1, 2.03:1, 1.57:1		

Examen et spécialité

CAP /BEP Maintenance des véhicules automobiles option Bateaux de pêche et de plaisance

Intitulé de l'épreuve

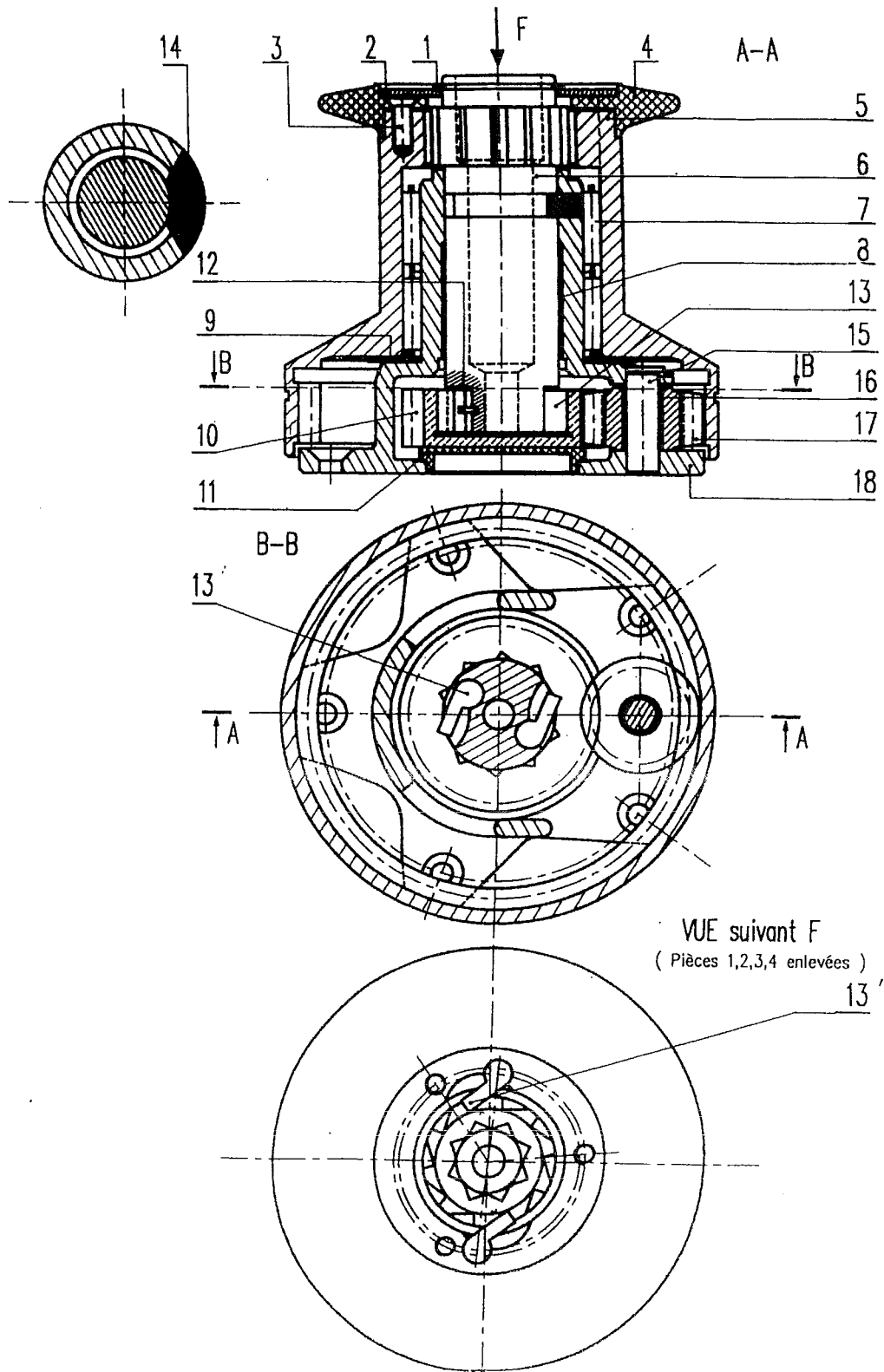
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Rappel codage

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Examen et spécialité

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19	1	Manivelle	Aluminium	Non représentée
18	1	Tambour avec couronne dentée	Bronze	
17	1	Pignon	Inox	Z17 = 10 dents; m = 2.75mn
16	1	Bague	Teflon	
15	1	Axe	Inox	
14	1	Clavette	PA6/6	
13	2	Cliquet	Inox	Fritté
13	2	Cliquet	Inox	Fritté
12	1	Ressort à action angulaire		
11	1	Bouchon	PA6/6	
10	1	Planétaire	Bronze	Z10 = 20 dents; m = 2.75mn
9	1	Bague de frottement	PA	
8	4	Bague	Téflon	
7	2	Roulements à aiguilles		
6	1	Axe	Inox	Forgé
5	1	Tambour	Cupr- Aluminium	Z5 = 40 dents; m = 2.75 mn
4	1	Couvercle d'arrêt	Matériau composite	
3	3	Vis FS		
2	1	Disque	Inox	Chromé
1	1	Anneau élastique	Inox	
Repère	Nbre	Désignation	Matière	Observations

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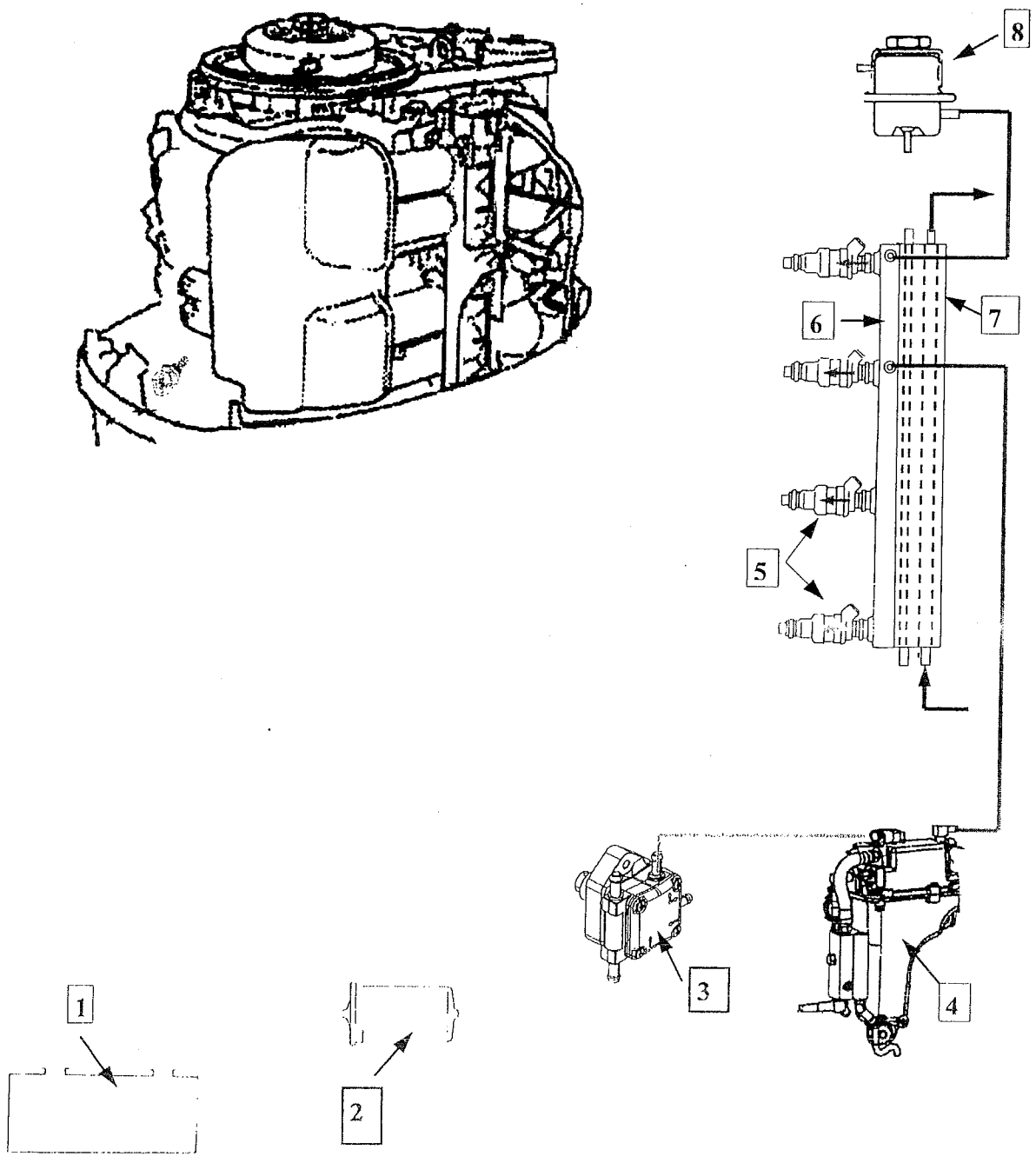
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FONCTION ALIMENTATION ESSENCE PAR INJECTION
Moteur 4 temps

4 Analyse structurelle du circuit essence



- 1 Réservoir
- 2 Filtre à carburant
- 3 Pompe à essence basse pression
- 4 Séparateur de vapeur

- 5 Injecteurs
- 6 Rail d'injecteurs
- 7 Echangeur
- 8 Régulateur de pression

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