

4D24 自然吸气船用发动机主要技术参数表（非道路 III 排放）

NO	Item	Technical specification				
		4D240	4D241	4D242	4D243	4D244
1	Engine model	4D240	4D241	4D242	4D243	4D244
2	Type	Vertical, In line, 4-stroke, water cooled				
3	Injection system	NA				
4	Combustion chamber	DIN				
5	Cylinder diameter (stroke mm)	447x333				
6	Valve per cylinder	2				
7	Displacement L	2.45				
8	Compression ratio	16:1				
9	Lubricating system	Pressure and splash				
10	Start type	E-start				
11	Governor system	E-governor				
12	Fuel system	Electronically controlled rack pump				
13	Oil capacity (L)	9.5				
14	Vibration	1-3-1-2				
15	Crank rotation	CW (Facing the Flywheel)				
16	Prime power/W (speed / r/min)	30.0/2000	32.0/2000	35.0/2000	37.0/2000	39.0/2000
17	Max. torque/N.m	160	160	160	160	160
18	Max. speed / (r/min)	1800/1800	1800/1800	1800/1800	1800/1800	1800/1800
19	Min. Oil consumption rate(g/kWh)	≤235	≤235	≤235	≤235	≤235
20	Oil consumption rate(g/kWh)	≤5.4	≤5.4	≤5.4	≤5.4	≤5.4
21	Maximum adjustable speed (r/min)	1800	1800	1800	1800	1800
22	Speed drop %	≤5				
23	Adjustable tilt angle	sea (°)	35			
24		land (°)	35			
25	Minimum starting temperature	No auxiliary device -10°C				
26	temperature	auxiliary device -30°C				
27	Adjustable stroke (mm)	≤1000mm, power drop≤10%				
28	Maximum allowable intake resistance kPa	2				
29	Maximum allowable exhaust back pressure kPa	5				
30	Emission level	CE/Ford China II				
31	Smoke density of standard operating condition FSN	≤3.5				
32	Noise level (p.dBA) (1m@engine) (1) (2)	≤92				
33	Fuel type	Summer: GB191-2003 or 98, 100High diesel oil Winter: GB191-2003 or 98, -10#, -20#, -35High diesel oil				
34	Oil type	Recommended the use of quality grade CF-4 Yachi special oil Summer: 40, 15W-40, Winter: 30, 10W-30 or other diesel engine oil that is not lower than CF grade oil (GB1112-2008) and is suitable for the environment.				
35	Dry weight kg	192	192	192	192	192
36	Dimension L×W×H mm	660×111×687	660×111×687	660×111×687	660×111×687	660×111×687

Remark: As technology advances, the above parameters will continue to improve the parameters of this plate.

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17	Max. torque/N.m	160	160	160	160	160
18	Max. speed / (r/min)	1800/1800	1800/1800	1800/1800	1800/1800	1800/1800
19	Min. Oil consumption rate(g/kWh)	≤235	≤235	≤235	≤235	≤235
20	Oil consumption rate(g/kWh)	≤5.4	≤5.4	≤5.4	≤5.4	≤5.4
21	Maximum adjustable speed (r/min)	1800	1800	1800	1800	1800
22	Speed drop %	≤5				
23	Adjustable tilt angle	sea (°)	35			
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25	Minimum starting temperature	No auxiliary device -10°C				
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26	temperature	auxiliary device -30°C				
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