

TECHNICAL REPORT

Grandezza 27 D4-300



BOAT DATA

Boat builder:	Oy Finn - Marin Ltd	Boat model:	Grandezza 27
Country:	Finland	Draft:	1,1 m / 3,6 ft
LOA:	8,3 m / 27,2 ft	LWL:	
Beam:	2,8 m / 9,4 ft	BWL:	
Fuel tank capacity:	260 l / 69 gal	Water tank capacity:	75 l / 20 gal
Deadrise angle:			

ENGINE & TRANSMISSION DATA

Engine make:	Volvo Penta	Engine model:	1 x D4-300
Fuel type:	Diesel	Engine speed:	3500 RPM
Output crankshaft:	223,7 kW / 300,0 Hp	Output propshaft:	186,4 kW / 250,0 Hp
Transmission make:	Volvo Penta	Transmission type:	DP-H
Gear ratio:	1,76:1	Propeller type:	G7
Propeller diameter:		Propeller pitch:	
No of prop. blades:		Blade area ratio:	

TEST CONDITION

No of crew:	2	Fuel filled:	50 %
Water filled:		Weight as tested:	3500 kg / 7716 lb
Weight checked by:	Estimated	Center of gravity:	
Speed checked by:	GPS	Ambient air temp:	11,0° C / 51,8° F
Water temp:	13,0° C / 55,4° F	Wind speed:	4,0 m/s / 9,0 mph
Sea condition:	Calm	Water type:	Brackish
Antifouling:	No	Galvanisation:	

SINGLE / PORT ENGINE

Inlet air temp.: 40,0° C / 104,0° F
 Air temp. front: 37,0° C / 98,6° F
 Exhaust back press.:
 Air temp. top of engine room: 35,0° C / 95,0° F

STARBOARD ENGINE

Inlet air temp.:
 Air temp. front:
 Exhaust back press.:

BOAT TEST

RPM	knots	mph	l/h	gal/h	l/n.mile	mile/gal	sound at helm (dB)
3530	39,5	45,5	57,0	15,1	1,4	3,0	88
3400	37,4	43,0	51,8	13,7	1,4	3,1	86
3200	34,4	39,5	45,3	12,0	1,3	3,3	84
3000	31,9	36,7	39,3	10,4	1,2	3,5	82
2800	29,1	33,5	35,1	9,3	1,2	3,6	82
2600	26,2	30,2	31,0	8,2	1,2	3,7	83
2400	23,2	26,6	25,2	6,6	1,1	4,0	82
2200	20,3	23,4	22,2	5,9	1,1	4,0	85
2000	16,0	18,4	19,1	5,0	1,2	3,7	82
1500	8,0	9,2	11,7	3,1	1,5	3,0	77

ACCELERATION FROM IDLING

To knots	To mph	sec
15,0	17,3	5,0
20,0	23,0	7,0
25,0	28,8	9,0
30,0	34,5	11,0

TEST INFORMATION

Report no: 9962
 Performed by: Henry Lindfors
 Cert. inst. no:

Date: 2011-06-14
 Location: Kokkola / Finland

The results refer to the test boat only. Performance may vary due to weather and load conditions. Any guarantee is a matter between the boat manufacturer and the customer.

**VOLVO
PENTA**