



Diesel Engines 12V 4000 M93/M93L

For Fast Vessels with Low Load
Factors (1DS)

Engine Type	12V 4000 M93	
Rated power ICFN	2340 kW	3140 bhp
Speed	2100 rpm	
Number of cylinders	12	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7.5 in
Displacement, total l : cu - in	51.7 cu	3155 in
Flywheel housing	SAE 00	
Gearbox type **	ZF7600	
Optimization of exhaust emissions *	IMO II/EPA 2	
Fuel consumption at rated power	216 g/kWh	
	600.5 l/h	
	158.7 gal/h	

** Gearbox variants "Down Angle A" and "V-Drive" available on request

Engine Dimensions

12V4000 M93

Dimensions (L x W x H) mm - in	2840 x 1465 x 2450 mm	111.8 x 57.7 x 96.5 in
Dry weight kg - lbs	8410 kg	18541 lbs

12V4000 M93 with gearbox type

Dimensions (L x W x H) mm - in	4075 x 1465 x 2500 mm	148.0 x 57.7 x 98.4 in
Dry weight kg - lbs	9910 kg	21848 lbs

Engine Type	12V4000 M93L	
Rated power ICFN	2580 kW	3460 bhp
Speed	2100 rpm	
Number of cylinders	12	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7.5 in
Displacement, total l : cu - in	51.7 cu	3155 in
Flywheel housing	SAE 00	
Gearbox type **	ZF 7600	
Optimization of exhaust emissions *	IMO II/EPA 2	

Fuel consumption at rated power 217 g/kWh
671.4 l/h
177.4 gal/h

** Gearbox variants "Down Angle A" and "V-Drive" available on request

Engine dimensions

12V4000 M93L

Dimensions (L x W x H) mm - in	2840 x 1465 x 2450 mm	111.8 x 57.7 x 96.5 in
Dry weight kg - lbs	8410 kg	18541 lbs

12V4000 M93L with gearbox type

Dimensions (L x W x H) mm - in	4075 x 1465 x 2500 mm	148.0 x 57.7 x 98.4 in
Dry weight kg - lbs	9910 kg	21848 lbs

* IMO - International Maritime Organization (MARPOL)
EPA - US marine directive 40 CFR 94