

# WÄRTSILÄ 34DF

## Main data

Cylinder bore ..... 340 mm  
 Piston stroke..... 400 mm  
 Cylinder output..... 435, 450 kW/cyl  
 Speed..... 720, 750 rpm  
 Mean effective pressure ..... 20.0, 19.8 bar  
 Piston speed..... 9.6, 10.0 m/s

Fuel specification:  
 Fuel oil ..... Marine diesel oil  
 ISO 8217, category ISO-F-DMX,  
 DMA and DMB

Natural gas  
 Methane Number: 80  
 LHV: min. 28 MJ/Nm<sup>3</sup>, 4.5 bar  
 BSEC 7700 kJ/kWh

## Rated power

Engine type	60 Hz		50 Hz	
	435 kW/cyl, 720 rpm		450 kW/cyl, 750 rpm	
	Engine kW	Gen. kW	Engine kW	Gen. kW
6L34DF	2 610	2 510	2 700	2 600
9L34DF	3 915	3 760	4 050	3 890
12V34DF	5 220	5 010	5 400	5 190
16V34DF	6 960	6 680	7 200	6 920

Generator output based on a generator efficiency of 96%.

## Engine dimensions (mm) and weights (tonnes)

Engine type	A	B	C	D	F	Weight
6L34DF	5 260	2 490	2 305	2 345	1 155	34
9L34DF	6 730	2 295	2 305	2 345	1 155	47
12V34DF	6 615	2 665	3 020	2 120	1 475	59
16V34DF	7 735	2 430	3 020	2 120	1 475	75

For definitions see page 67.

