

■ Our delivery programme

>> engine performance data

Engine type	Number of cylinders	Engine output	Output of generating set	Frequency	Nominal speed	Stroke/bore	Mean effective pressure	suitable for use with heavy oil
		kW	kVA	Hz	rpm	mm	bar	mm ² /s
VDS 29/24 AL	6	1170	1390	50	750	290/240	23,9	700
		1418	1700	60	900			
		1560	1850	50	1000			
	8	1575	1880	50	750			
		1890	2250	60	900			
		2100	2520	50	1000			
	9	1760	2100	50	750			
		2115	2530	60	900			
		2350	2800	50	1000			

>> Engines running on vegetable oil

Engine type	Number of cylinders	Engine output	Output of generating set	Frequency	Nominal speed	Stroke/bore	Mean effective pressure	suitable for use with heavy oil
		kW	kVA	Hz	rpm	mm	bar	mm ² /s
VDS 29/24 AL	6	1190	1140	60	900	290/240	20,1	see SKL-quality
		1320	1265	50	1000			
	8	1595	1530	60	900		20,3	standard
		1770	1700	50	1000			
	9	1800	1740	60	900		20,3	standard
		2000	1935	50	1000			

dimensions <<

Motortyp	Engine		Generating set					
	Length/ mm	Width/ mm	Hight/ mm	Weight/ kg	Length/ mm	Width/ mm	Height/ mm	Weight/ kg
6 VDS 29/24 AL	4750	1810	2825	15700	6365	1810	3250	22500
8 VDS 29/24 AL	5600	1910		19850	6805	1910	3380	28500
9 VDS 29/24 AL	5800			21250	7725			33000

Dimensions and weights are approximate and without obligation. Binding data are dependent on the project-specific application case and may be taken from the project documentation.

- Reference conditions:**
- Intake air temperature 45°C (27 °C for engines running on vegetable oil)
 - Air pressure 1 bar
 - Cooling water temperature upstream of charging air cooler max. 38 °C
 - NOx limited values defined in the IMO Code are adhered to

>> SKL-quality standard

Properties	Unit	ltd.values	suitable vegetable oils
Density 15°C	g/l	max. 930	
Flashpoint	°C	> 200	
Kinematic viscosity 50°C	mm ² /s	max.30	
Kinematic viscosity 70°C	mm ² /s	max.20	palm oil
Water content	mg/kg	max. 1000	
Ash	Masse %	< 0,1	rape oil
free fatty acids	Masse %	< 1,5	
Phosphorus	Masse %	< 30	sunflower oil
Total fouling	mg/kg	< 50	
Oxidation stability 110°C	h	> 5	soybean oil
Sulfur	mg/kg	< 50	
Cetan-number		> 35	
Nitrogen	mg/kg	< 10	cuttanseed oil
Pourpoint	°C	< 40	
Total acid number	mgKOH/kg	< 3	
Net calorific value	kJ/kg	>35000	