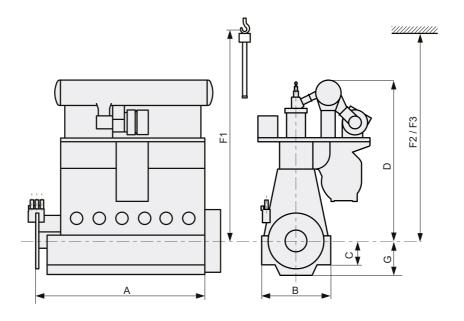


X72DF-1.2					IMO Ti	IMO Tier III in gas mode		
Cylinder bore: 72						720mm		
Piston stroke: 308						6mm		
Speed: 69-7						9rpm		
Mean effective pressure at R1: 15.7						ır		
Stroke/bore ra	atio:				4.29			
Rated power	r, principal dim	ensions and weig	hts					
0	Output in kW at							
7	9rpm	69rpm						
Cyl.	R1	R2	F	13	R4	Length A mm	Dry mass tonnes	
5	13000	11900	1135	50	10400	7875	470	
6	15600	14280	1362	20	12480	9165	550	
Dimensions mm		136	F1	1575 F2 13655		10790 F3 12730	G 2455	
Brake specif	fic consumption	n in gas mode						
Rating point			R1		R2	R3	R4	
BSEC (energy	energy) kJ/kWh		7052	7052 6955		7113	7004	
BSGC (gas)		g/kWh	140.3		138.2	141.5	139.2	
BSPC (pilot fuel)		g/kWh	0.9		1.0	0.9	1.0	
Brake specif	fic fuel consum	ption in diesel mo	ode					
Rating point			R1		R2	R3	R4	
BSFC (diesel 1	Γier II)	kJ/kWh	180.8		180.0	180.9	180.0	



Engine Definitions and Notes

ISO Standard (ISO 3046-1) reference conditions

1.0 barTotal barometric pressure at R1

25°CSuction air temperature

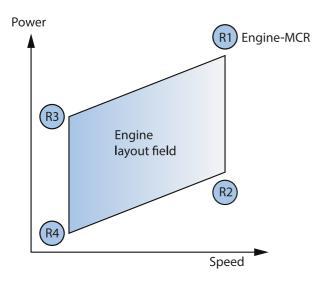
30%Relative humidity

25°CCooling water temperature before engine

Rating points

The engine layout fields for WinGD low-speed engines are defined by the power/speed rating points R1, R2, R3 and R4 (see diagram below).

R1, ok instead if applicable, is the nominal maximum continuous rating (MCR).



Any power and speed within the respective engine layout field may be selected as the Contracted-MCR (CMCR) point for an engine.

Dimensions and weights

- All dimensions and weights are not binding. For detailed information and updates, please visit: www.wingd.com/en/engines/engine-types

AEngine length from the coupling flange to the end of the bedplate

A*Engine length from the TC aft end to the end of the bedplate

BWidth of the engine seating

CDist. from the centre of the crankshaft to the underside of the foot flange

DDist. from the centre of the crankshaft to the highest point of the engine

F1Min. height for vertical removal of the piston

F2Min. height for vertical removal of the piston with double-jib crane

F3Min. height for tilted removal of the piston with double-jib crane

GDistance from the centre of the crankshaft to the lowest point of the engine

- The engine weight is a net value and excludes any liquids.

Fuel/energy consumption

All brake specific fuel consumptions (BSFC) and brake specific pilot fuel consumptions (BSPC) are quoted for fuel of lower calorific value 42.7 MJ/kg.

Brake specific gas consumptions (BSGC) are quoted for gas of lower calorific value 50.0 MJ/kg.

Brake specific energy consumptions (BSEC) for dual-fuel engines are based on energy delivered to the engine as gas and liquid fuel for one kilowatt hour mechanical power output.

For all WinGD low-speed diesel and dual-fuel engines stepwise tolerances have been introduced for the brake specific fuel and energy consumption (BSFC/BSEC) guarantee, referring to ISO standard reference conditions (ISO 15550 and 3046):

- +5% tolerance for 100% to 85% engine power
- +6% tolerance for <85% to 65% engine power
- +7% tolerance for <65% to 50% engine power

The BSFC/BSEC guarantee is possible at up to three power points between 50–100%.

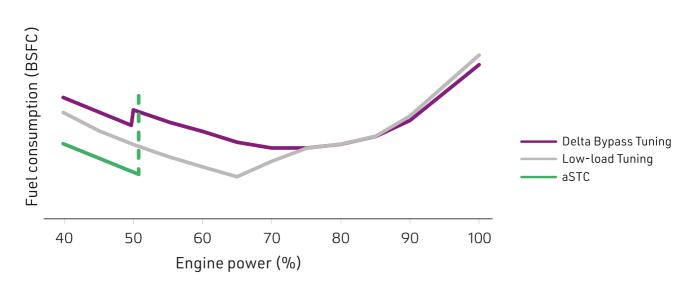
Available engine tunings

Delta Bypass Tuning and Low-load Tuning are available for certain WinGD low-speed diesel engines to provide optimum fuel consumption for different engine loads. Delta Bypass Tuning and Low-load Tuning focuses on reducing fuel consumption in the operating range below 90% or 75% engine power.

The advanced technology of Steam Production Control (SPC) can be added to the Low-load and Delta Bypass Tuning to increase the steam production, while keeping the overall fuel consumption at a minimum.

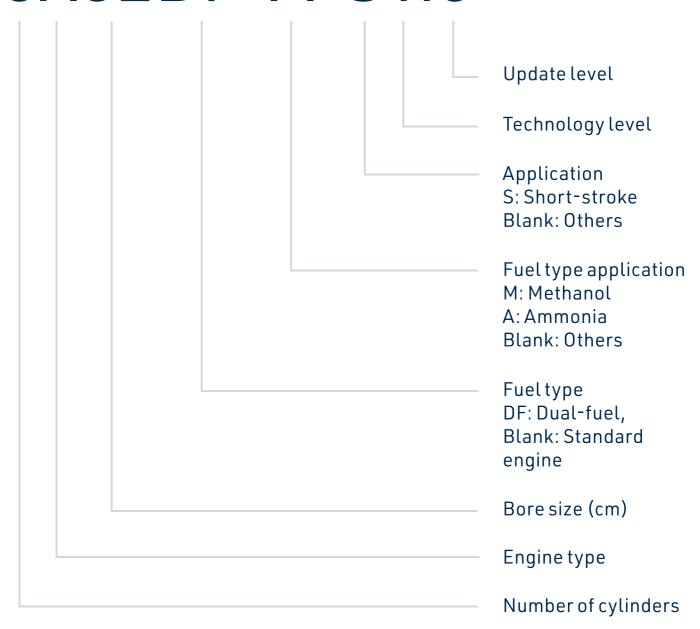
Dual tuning is available on request and in cooperation with classification societies.

Automated Sequential Turbocharging (aSTC) is available as an option for X82-2.0 and X92-B engines with multi-turbocharger configurations. aSTC significantly reduces the engine's consumption at low loads.



Engine Designation

6X52DF-A-S1.0



Example engine designation 6X52DF-A-S1.0 representing a WinGD 6 cylinder, short-stroke engine for dual-fuel operation with ammonia and diesel.

All data provided in this booklet is for information purposes only, explicitly non-binding and subject to change without notice. The General Technical Data (GTD) program provides up-to-date information on WinGD low-speed engines.

When referring to specific engines, the data may be subject to changes. These will be assessed individually according to the particular characteristic of each project.