

5.3 MW WARTSILA DG Set



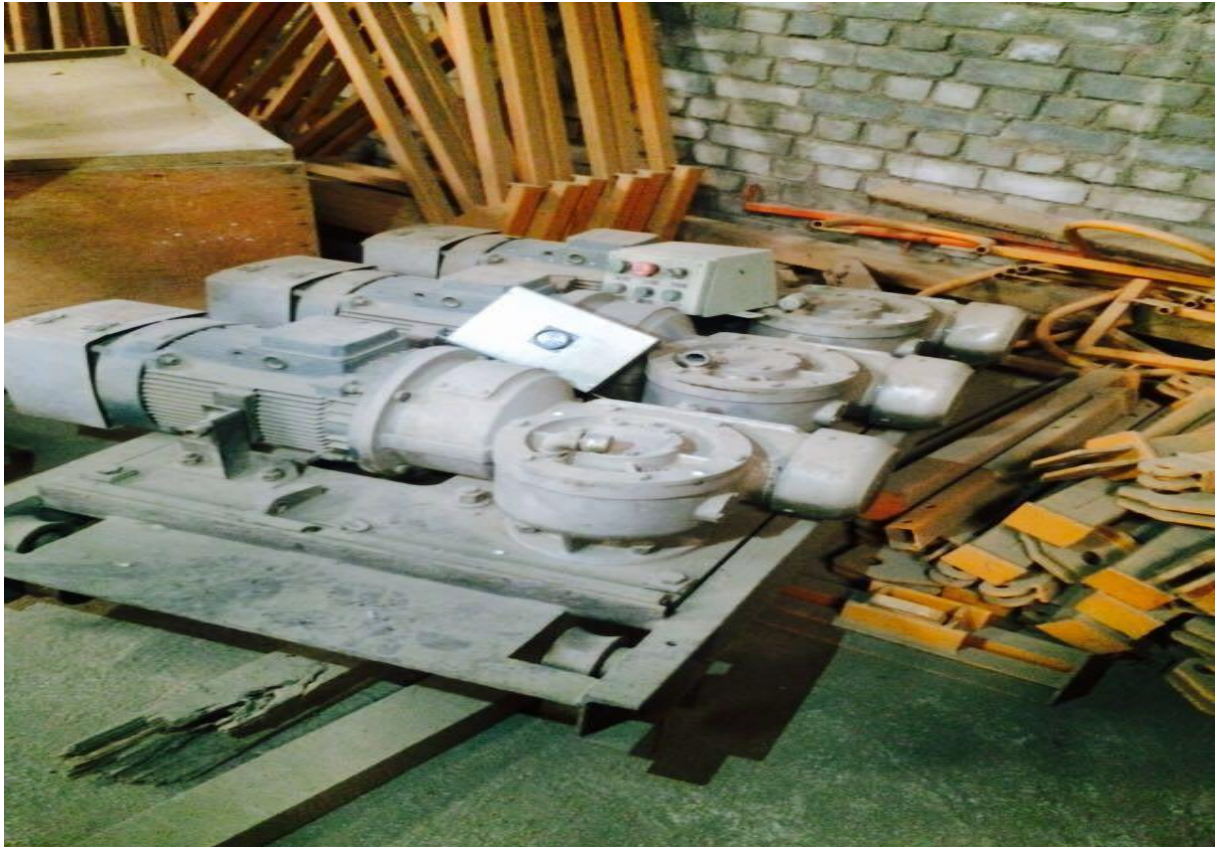
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Wartsila HFO Genset W12V32, 5.3 MW

BRAND NEW AS NEVER USED STILL IN WOODEN BOXES
INCLUDING TOOLS AS PER WARTSILA STANDARD

WARTSILA 12V32W SPECIFICATION DATA

The generating set consists of an engine and a generator, mounted on a common base frame. The base frame is flexibly mounted on the foundation using steel spring elements. A flexible coupling connects the engine and the generator.

Generator

The engine drives a synchronous three-phase generator.

The air-cooled generator includes a cooling unit with shaft-mounted cooling fans and air filters. The generator is also equipped with an anticondensation heater.

The excitation of the generator is controlled by an automatic voltage regulator, installed in the control cabinet of the generating set.

Engine

The engine is a four-stroke diesel engine with direct fuel injection.

The engine is equipped with turbochargers and intercoolers. A small part of the auxiliary equipment, including the lubricating oil circulation system and the engine-driven cooling water pumps, is built on the engine.

Technical specifications

ENGINE

Engine type W12V32

Number of cylinders 12

Cylinder bore 320 mm

Stroke 400 mm

Speed 750 rpm

Rated output 5327 kW

Main voltage 415 V; 50 Hz

Secondary voltage 24 VDC

Oil sump WET

Rotation direction Clockwise

Generator

Generator type ABB AMG 0900LP08 DSE

Output 6659 kVA

Power factor 0.80

Voltage 11,000 V

Current 350 A

Frequency 50 Hz

Anticondensation heater power 0.8 kW

Other equipment

Flexible coupling Stromag GEF 9000 R

Vibration damper Geislinger D90/36/1

Turbocharger Napier NA297

Governor Woodward PG-EG-58

Power distribution system

Medium voltage system

Voltage 11 kV

Low voltage system Voltage 415 V

Fuel supply and circulation system

Engine auxiliary module

Capacity, dirty leak fuel pump 1 m³/h

Motor power, clean leak fuel pump 1.1 kW

Leak fuel tank volume 100 l

Fuel oil module

Capacity, fuel pump 6.1 m³/h

Motor power, fuel pump 4.0 kW

Fineness, fuel filter 35 µm

Air bottle volume 15 l

Lubricating oil circulation system

Prelubrication pump

Motor power 22 kW

Lubricating oil treatment system

Lubricating oil separator unit

Capacity, separator 1.6 m³/h

Capacity, feed pump 1.6 m³/h

Motor power, separator 5.5 kW

Motor power, feed pump 1.1 kW

Electric heater 36 kW

Cooling water system

Radiators

Number of radiators per engine 2

Number of cooling fans per radiator 6

Motor power 4.0 kW

Pressurizing pump

Pump capacity 3 m³/h

Motor power 0.5 kW

Preheating unit

Pump capacity 7.2 m³/h

Motor power 0.65 kW

Heater power 54 kW

Charge air system

Charge air filter

Motor power, oil bath filter 0.18 kW

Charge air silencer

Attenuation 35 dB(A)

Exhaust gas system

Exhaust gas silencer

Attenuation 35 dB(A)

WARTSILA

packing list

Power Plants

Irrevocable documentary credit no: 311000707

1 No Wartsila W12V32 (1x5,327 Kwe), 11 kv genset and auxiliaries as per Proforma Invoice No 780433 dated 7th March 2007 of the beneficiary.

Project Number:
Project Name:
Project Manager:
Terms of Delivery:
Forwarder:
Delivery:

Arrival:

Unit No.	Supplier	Description	Length (cm)	Width (cm)	Height (cm)	Volume (m3)	Weight (kg) gross	Weight (kg) net	Notes
1		Engine PAAE065B001	1030	308	428	135.779	93500	93500	
2		Air bend for TC	120	80	100	0.960	145	75	
3		Charge Air Filter for W12V32	349	168	244	14.306	2120	1500	
4		Exhaust Gas Silencer	755	215	235	38.146	4720	3850	
5		Charge air silencer - SCAS NS500	386	125	135	6.407	1200	800	
6		Lube Oil Separator-SA821E	203	170	265	9.145	1675	1125	
7		Lube Oil Separator-SA821E	110	100	85	0.935	160	60	
8		maintenance tools	120	80	75	0.720	520	456	
9		maintenance tools	250	60	28	0.420	75	30	
10		tools	150	110	95	1.568	247	157	
11		Control Panel for 1XW12V32	160	112	230	3.864	570	420	
12		cables, AVR	200	140	80	2.240	386	315	
13		double bellows	150	110	95	1.568	250	160	
14		bellows	136	136	180	3.329	580	395	
15		nozzle element, sealing set	56	32	38	0.068	16	9	
16		dosing unit	64	52	60	0.200	32	17	
17		hard tools	94	84	123	0.871	215	140	
18		Double Bellows	120	80	100	0.960	153	83	
19		flexible connections	150	110	115	1.898	868	508	
20		Seal: C026325							
21	S.O. 20' Box Cont. No: CLHU 227583-7	MOD011 W32EAM2-C& MOD 011F1	605	244	259	38.234	5130	2600	
22		Seal: C026326							
23	S.O. 20' Box Cont. No: KTNU 253809-9	MOD011 W32EAM2-C& MOD 011F1	605	244	259	38.234	4345	2100	
24		Thermostic valve HT-DN-150	39	39	87	0.132	96	89	
25		Spring Elements	124	90	80	0.670	690	630	
26		Commissioning Spares	125	54	30	0.203	28	14	
27		Radiator for W12V32	1095	272	181	53.909	7985	4710	
28		Radiator for W12V32	1095	272	181	53.909	7585	4300	
29		Frequency converter	120	80	64	0.614	100	80	
30									
31									
Total Unit quantity			27			Total	409,477	133161	113457

Wartsila Finland Oy
Power Plants

OCTA Cc