



JADE Power Trading
Quality Energy Equipment

PRODUCT
BROCHURE
REF.
9912024

GAS GENERATING SET - 3.9 MW **WARTSILA 12V34SG WITH CHP AUXILIARIES**

3915 kWe | 6000 V | 50 Hz | Year 2010



3915 kWe
ELECTRICAL OUTPUT

43,767 h
OPERATING HOURS

10 bar steam
HRCS OUTPUT

40000 h
LAST MAJOR SERVICE

NATURAL GAS • STEAM CHP • COMPLETE INSTALLED PACKAGE

EQUIPMENT OVERVIEW

Installed natural-gas generating set with steam heat recovery and a complete auxiliary package.

INSTALLED WARTSILA CHP GENERATING PACKAGE

This power plant was built by Wartsila at the end of 2010 and commissioned in 2011 as a turnkey project. It is based on a Wartsila 12V34SG lean-burn gas engine coupled to an ABB synchronous alternator and equipped with a heat recovery system for approximately 10 bar saturated steam production.

The plant operated on standard natural gas supplied from a local pipeline until 2021, accumulating 43,767 running hours. All scheduled maintenance was carried out by Wartsila Service, with the major 40,000-hour service completed only about 3,000 hours before shutdown.

The installed package includes the step-up transformer, lube-oil system, control and synchronizer panels, UPS systems, operator monitors, MCC, start-up system, air compressors, exhaust system, HRCS for 10 bar steam, 6 kV vacuum breaker with synchronization, plus manuals and technical drawings. The plant remains installed with electrical power still connected to the devices.

Top side view



Picture 3



TECHNICAL SPECIFICATIONS

Technical data provided for preliminary sales and project evaluation.

PARAMETER	SPECIFICATION
Manufactured by	Wartsila Finland
Engine type	Wartsila 12V34SG lean-burn gas engine
Alternator	ABB synchronous generator 5425 kVA
Year of manufacture	2010
Electric power from alternator	3915 kW _e / 6000 V / 50 Hz
Fuel	Natural gas
Operating hours since new	43,767
Last scheduled service	40,000-hour service by Wartsila
Steam production at 100% load	Approx. 2000 kW / 10 bar saturated
Original heat rate (at alternator)	8188 kJ/kW _{he} (44.0%)
Engine control system	UNIC + Siemens S7-series PLCs
Power transformer	SNT 6/15.7 kV, 6000 kVA (1994)
Application	Electric power and steam generation from natural gas
Maintenance history	Scheduled services performed by Wartsila Service
Installation status	Installed; electrical power still connected to devices
Auxiliary systems	Steam HRCS, lube-oil system, synchronizing, UPS, MCC, air compressors
Electrical equipment	6 kV vacuum breaker with synchronization
Documentation	Manuals and technical drawings included
Shutdown year	2021
Performance note: Final electrical and thermal performance depends on gas quality, destination-site integration, steam use profile, auxiliary battery limits, and agreed testing and recommissioning procedures.	

SCOPE OF SUPPLY & CONTACT

The following scope is based on the currently available sales information and remains subject to final confirmation.

INCLUDED EQUIPMENT

- ✓ Wartsila 12V34SG gas engine and ABB synchronous alternator
- ✓ Step-up transformer SNT 6/15.7 kV, 6000 kVA
- ✓ Lube-oil system
- ✓ Control panels, synchronizer panel and operator monitors
- ✓ UPS systems and MCC
- ✓ Start-up system and air compressors
- ✓ HRCS for 10 bar steam production
- ✓ Exhaust system
- ✓ 6 kV vacuum breaker with synchronization
- ✓ Manuals and technical drawings

DELIVERY & INSPECTION

- All scheduled maintenance performed by Wartsila Service
- 40,000-hour major service completed shortly before shutdown
- Plant remains installed and can be technically reviewed in place
- Final battery limits, dismantling scope and export packaging subject to verification
- Transport, reinstallation and recommissioning may be arranged separately
- Final commercial and delivery terms subject to contract

SITE INTEGRATION & STEAM CHP USE

The receiving site must verify gas supply conditions, electrical interconnection, transformer compatibility, exhaust and steam routing, boiler / HRCS integration, emissions compliance, control-system integration, and operating philosophy for both power and steam demand. Final installation and commissioning should be engineered for the destination site prior to relocation.

REQUEST FURTHER INFORMATION

Commercial quotation, additional photographs, detailed scope clarification, technical documentation and inspection arrangements are available on request.

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**SCAN FOR ONLINE
LISTING**

All information is provided in good faith for preliminary evaluation and is subject to verification, final scope confirmation and contract.