BHKW Service Deutschland GmbH

BHKW Service Deutschland, Elbstraße 5, 29475 Gorleben

introduction

BHKW Service Deutschland GmbH is a company operating in the field of combined heat and power (CHP) services, both domestically and internationally. Founded in 2016, BHKW Service Deutschland GmbH has many years of experience in the planning, installation, maintenance, and repair of CHP plants powered by gas engines running on natural gas and special gases.

Assessment of a gas engine system for

Kandlin Power Generator Purchase GmbH
Kürtener Str. 13
51465 Bergisch Gladbach

Date and location of the assessment

Wednesday, July 15, 2026 in 01616 Strehla , An der alten Leimfabrik 2. The CHP unit was housed in a warehouse.

Designation of the plant

K.+S. GTK 382kw Bh. 65.303

Description of the plant components

The CHP plant consists of a
MAN engine
generator
Engine cooling circuit
Mixture cooling circuit
Exhaust gas heat exchanger
Plate heat exchangers

Condition of the assessment

The combined heat and power unit stood in the room without connections or batteries. The attachments were mostly installed.

Measures taken

Visual inspection revealed that the power plant could not be started because there was no electricity or gas connection .

Persons involved

Roy Rattmann
Mathias Röhlk

Documentation submitted for review

Circuit diagram available

Assessment of the facility

Cylinder liners corroded with scoring
Deposits present on pistons and valves
Cylinder 10 has inclusions on the piston and the head is cracked from the spark plug hole to the valve.

Insulation measurement of generator winding to housing at 500V - 268MOhm
Insulation measurement Mkw HT 500V > 500MOhm
Insulation measurement Mkw 500V > 500MOhm
Insulation measurement Gkw 500V > 500MOhm
Insulation measurement of oil pump 500V > 500MOhm

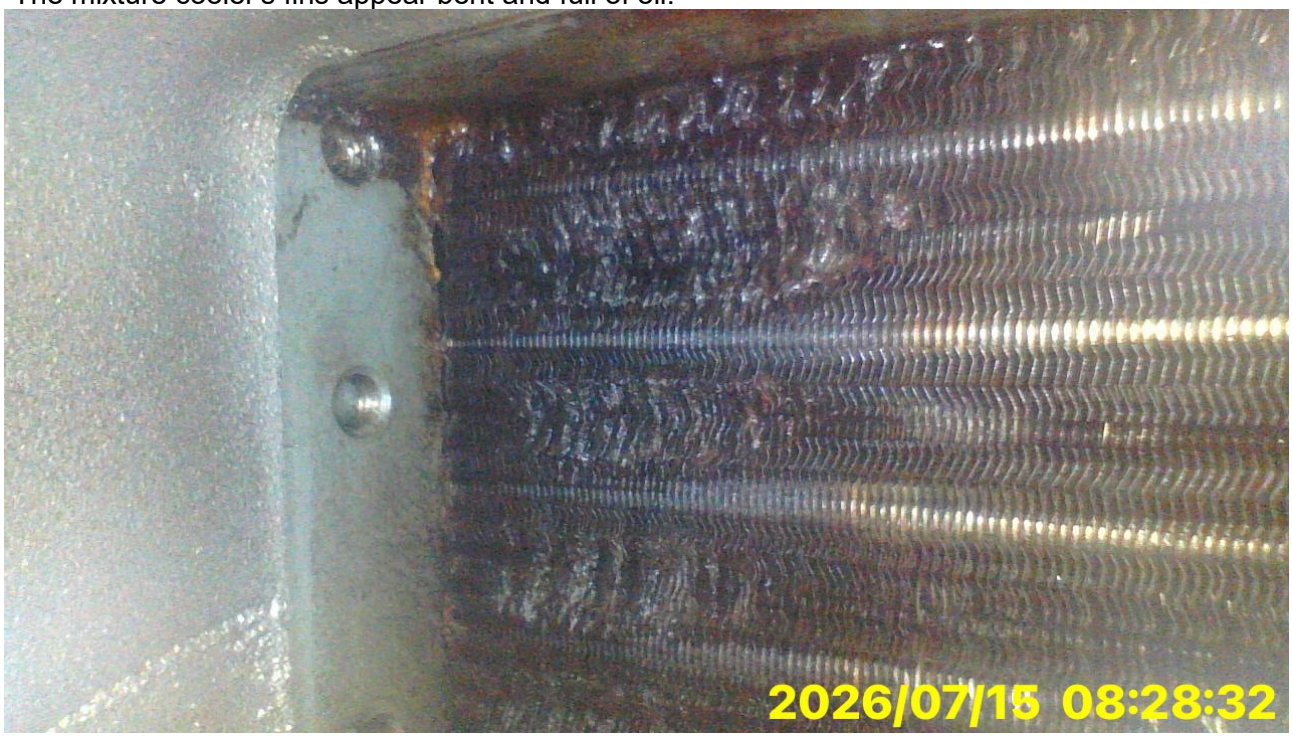
Cylinder 10 has inclusions on the piston and a crack from the spark plug hole to the valve.





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The mixture cooler's fins appear bent and full of oil.





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Coolant/oil leak is coming from cylinder 10, possibly leaking or not cleaned properly.



Oil deposits on the oil pan and drips at the oil pan bolts, possibly oil pan gasket.



Flywheel full of oil sludge, possibly shaft seal defective

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Leak in water pipe



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Cables and cable routing not 100% good





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Touch guard screw torn out



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The CHP unit has no major defects and can therefore be put back into operation.

A final assessment of the entire CHP plant is only possible after commissioning; a visual inspection can never capture all eventualities and cannot be a comprehensive repair analysis.

With kind regards

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