

# DON'T LOOSE YOUR HEAD. HAVE IT OVERHAULED!



## With the ECOS® - cylinder-head overhaul for all common gas and diesel engines.



With the ECOS® overhaul of cylinder-heads we offer you a very reasonable and economic service with regard to the mechanical reconditioning of different brands.

A qualified team of our service-specialists ensures that your cylinder-heads and individual components are precisely reconditioned in a smooth and timely fashion – from the dismantling on site, through the overhauling and reinstallation, right up to the restarting operation according to DIN EN ISO 9001 : 2000.

See the overleaf for the scope of services included in our **ECOS® - cylinder-head service package.**

See for yourself what we have to offer!

*It's your mobility that drives us*



Certified in  
accordance with  
ISO 9001 : 2000



Certified in  
accordance  
with SCC\*\*

# ECOS® - cylinder-head service package

## Overview of our services:

### ECOS® - cylinder-head overhaul:

#### 1 Disassembly of the cylinder head

- Thorough cleaning of all components at Wulf Johanssen we use only environment-friendly cleaning materials

#### 2 Evaluation of the cylinder head

- The cast piece of the head is checked for corrosion, cavitations and tear (metal check) according to DIN EN ISO 9001 : 2000
- Precise re-work of the threaded bores
- Pressure test on the water side

#### 3 Component evaluation according to DIN EN ISO 9001 : 2000

- All components are checked for wear, tear and break and measured
- All measurements are recorded in a protocol

#### 4 Intake- and exhaust valve

- The valve guide, valve and valve seat of the outlet side are replaced by certified new spare parts
- The inlet side is thoroughly tested and precisely reconditioned

#### 5 Valve sets and rotocaps

- Progression and preloading force of the valve springs are tested in accordance with manufacturer specifications
- Examination of valve spring keys and spring plates
- All rotocaps are replaced

#### 6 Intake- and exhaust manifold

- To optimise performance, the intake- and exhaust manifold are specially reconditioned

#### 7 Assembly of the cylinder head

- Painting and final check
- Stamping with the DIN EN ISO 9001 : 2000 seal
- Packaging in recyclable material

### Optional: ECOS® - replacement head:

- You are receiving an ECOS® - replacement head in exchange for a reconditioned ECOS® - cylinder-head
- Reconditioned and tested according to DIN EN ISO 9001 : 2000
- You are thus ensuring brief down-time periods and rapid availability of your plant!

