Future in the making

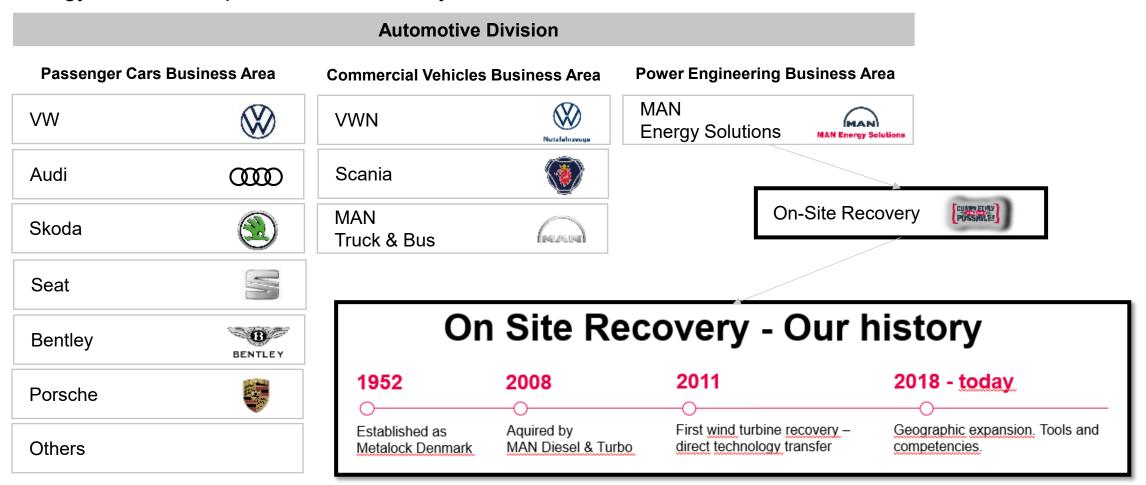


Up-tower repair: a win wind situation

Christian Egeslund Petersen
On-Site Recovery

Member of the Volkswagen Group

MAN Energy Solutions is part of a brand family



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Up-Tower Repair - Moving the workshop up.

INLAND & OFFSHORE

In-Situ Recovering of large mechanical parts.

- Generator shaft recovery
- Yaw and pitch gear teeth recovery
- Yaw / brake disc recovery
- Inspection of gear boxes
- Hollow shaft recovery
- Thread recovery
- Flange recovery
- Measurement & alignment
- NDT Inspection
- Welding uptower and tower
- Customized recovery
- Etc.









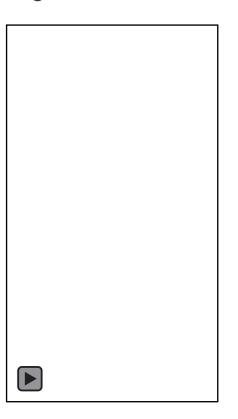
Generator shaft recovery Example

NO HOT WORKS, NO WELDING, KEEPING EQUIPMENT SAFE.

Damaged generator shaft



Up tower - Machining of generator shaft



Recovered generator shaft after mounting of bush



Yaw Ring - On-Site Repair

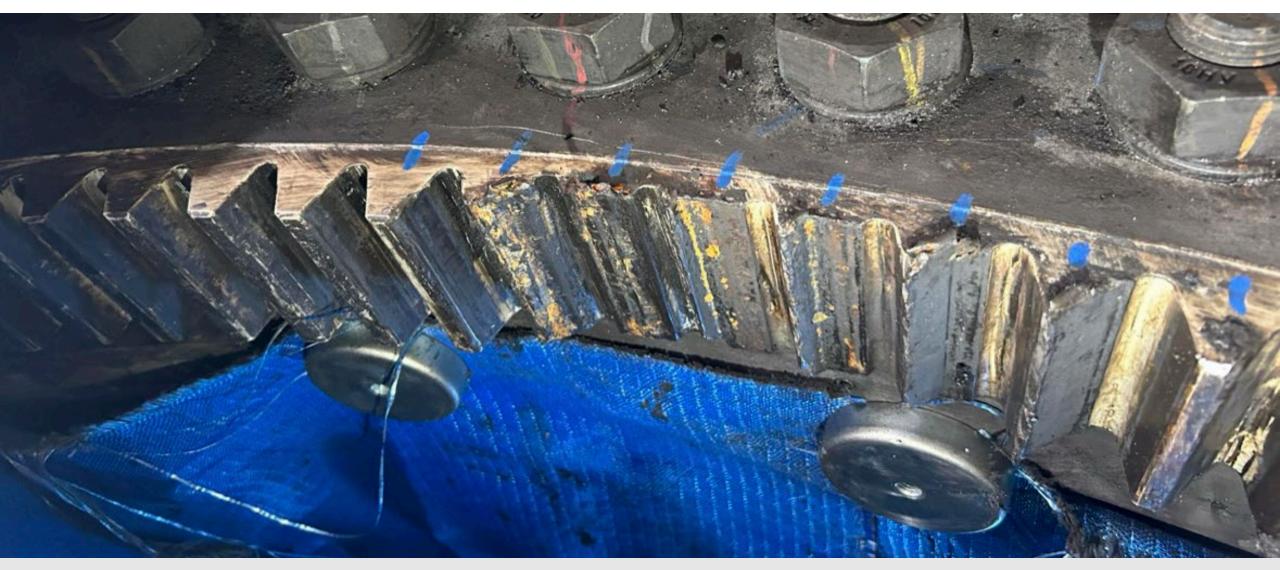




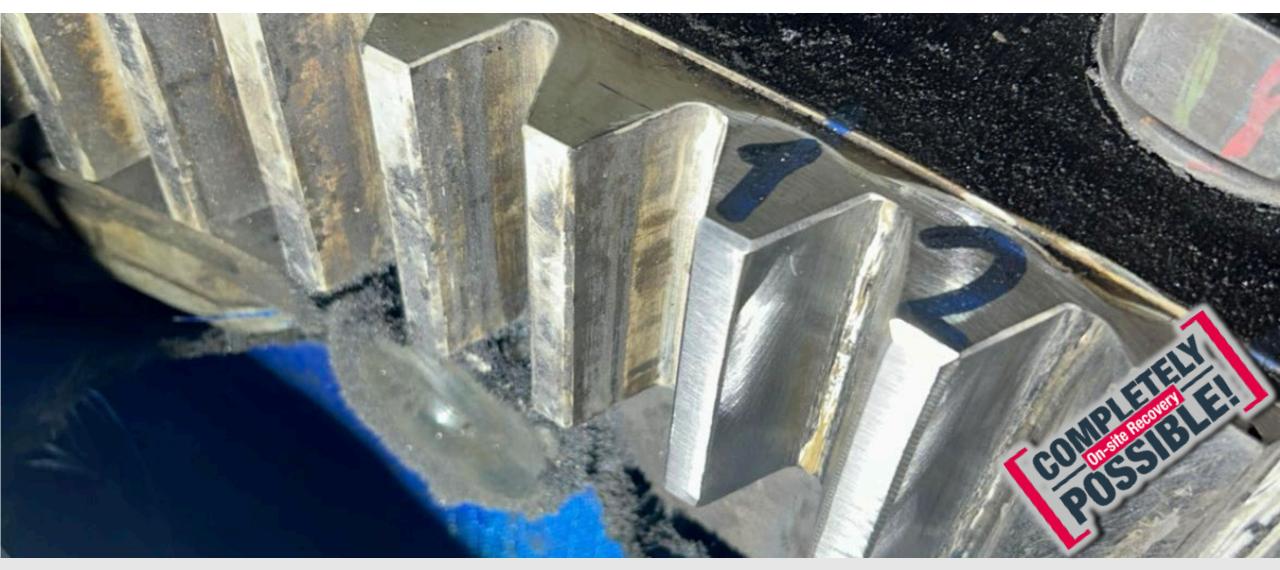




Pitch Gear



Pitch Gear



Customized recovery

Specialized solutions for unique problems:

In-house engineering of specialized tools

- Design
- Development
- Production
- Test

On-site specialists perform the repair

- Experience
- High precision
- Test



Benefits – Up-tower recovery

- SAFETY FIRST: Highest standards.
- Fast recovery
- Minimized down-time
- Component recovered to manufacture's specs
- Saved cost



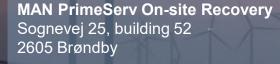






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Thank you very much! On-Site Recovery

QUESTIONS?