Point Zero wind turbine inspection

Asset digitalization with rotor blade, tower and nacelle inspections.

Summary

Knowing the status of your assets from the very beginning of the life cycle

It is crucial for wind farm assets to be in **good shape for optimum of production yield, predictable cost allocation and minimizing administrative efforts.**

Surprises, such as **unplanned down-times**, **repairs, loss of production** or anomalies with potential to affect this all as well as health of staff and people near-by are **to be minimized**.

Long discussions with uncertainty in insurance and liability cases do happen during the life cycles of a wind farm.

Inspection of wind turbines give you a clear picture of the status of your asset. **Preventive action contributes minimizing costs, losses, and risks.**

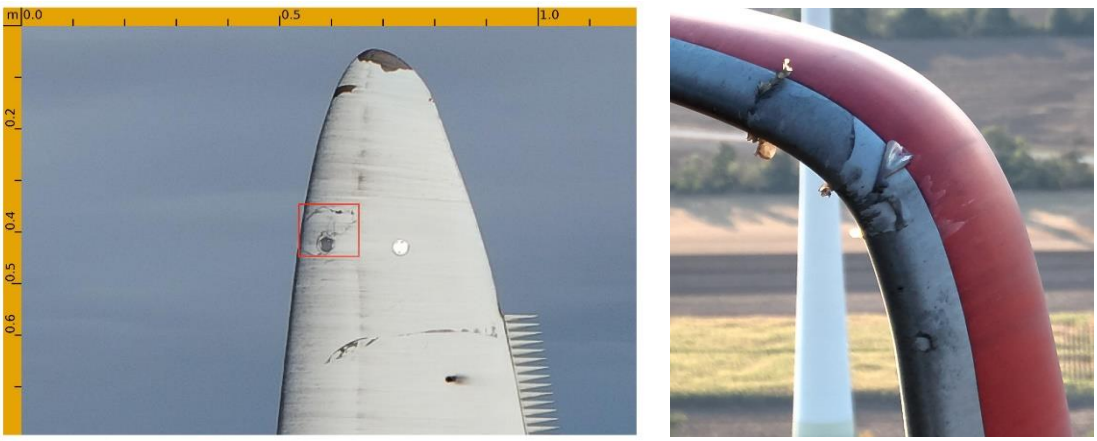
With years of experience in the wind farm business we conclude that damages not only occur after the start of operation of a wind farm or during transport.

Damages do also occur during assembly including mounting of the blades.

Our **Point Zero WTG Inspection is the answer to this and serves two purposes:**

1. **Reporting potential damages on rotor blade, tower or nacelle after assembly.**

2. **Making a digital snapshot of the asset at "hour zero".** – Later damages can thus be pinpointed to the phase of operation rather than construction. It also serves as a **status confirmation** at take over displaying the condition towards stake holders and insurances.

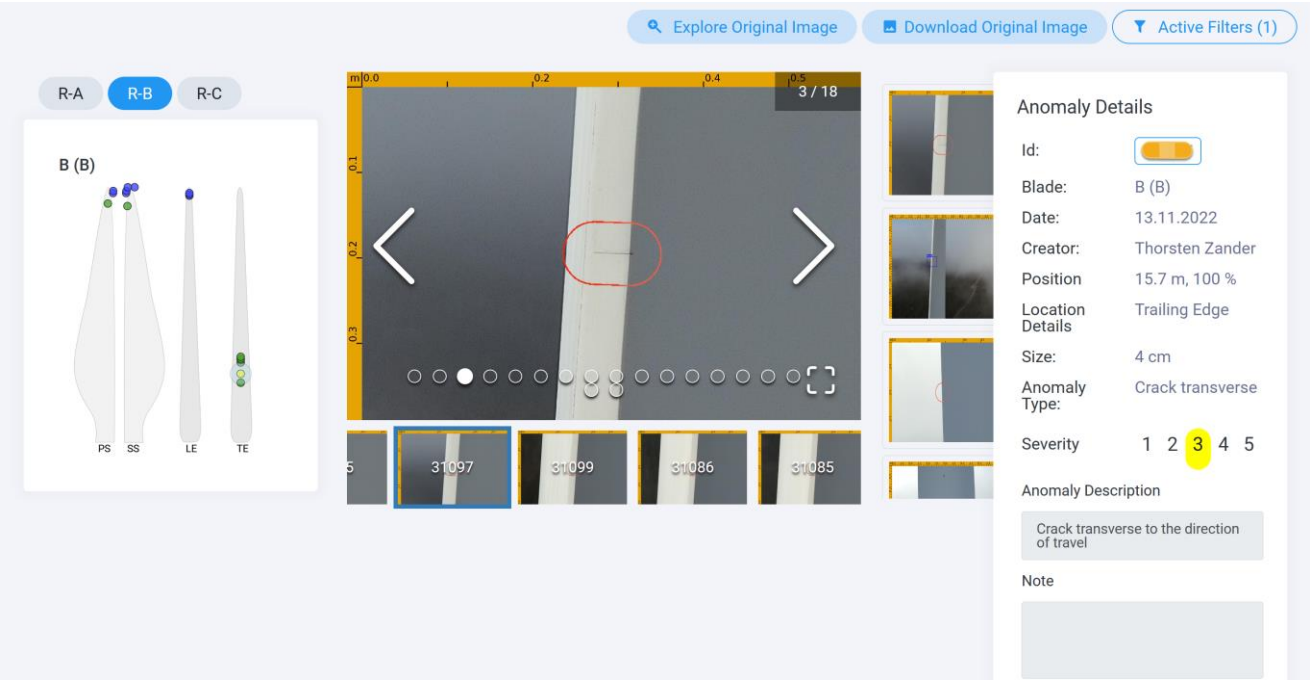


Picture 01: image of rotor blade anomaly

Report

The results are stored on an EU based server via AeroEnterprise. The reports and data for the specific wind farm and wind turbine as well accs rotor blade, tower and nacelle can be followed up over the whole life-cycle of this asset. Potential damages are classified in 5 severity categories and can be filtered on anomaly/damage type, damage class, etc.. The corresponding images can be seen including meta data on the wind turbine part, date, size and category of damage along more data.

Picture 02: screenshot of report overview page



Picture 03: screenshot of report specific anomaly detailed page

Picture 04: Spotcheck with 7x optical zoom

Picture 05: Spot-check with 7x optical zoom, July 2022, Austria