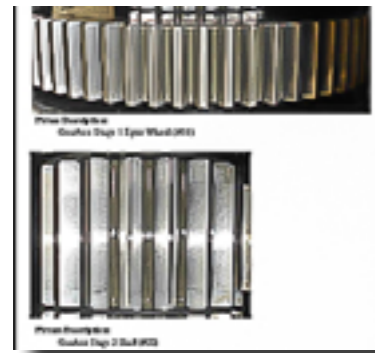


# AFTER SALES

## SERVICES

### Borescope Inspection

In OTD our core business is Design, Engineering & Aftermarket services for all our Jack-up rigs. We have a dedicated, highly skilled group of professionals who have been involved in the Offshore & Onshore jacking system inspections services for many years.



#### Why choose OTD?

- OTD has a group of dedicated team that specializes in Borescope Inspection
- Perform the necessary checks on various equipment and determine the potential area for failure
- Evaluate the root cause of equipment failure base on the Borescope results.
- Rectify and provide immediate solutions to our clients with the support of our strong back-end team with the data and result analysis.

Aftersales Services

## Borescope Inspection

All gears & bearing failure can lead to major failure of the gearbox. Once a gearbox is jammed, the forces of other moving units will break the failed gearbox unit causing structural damage at the jackcase and render the gearbox beyond repair. Many failure modes of gears and bearing can in fact be visually observed and recorded through a borescope inspection, and can be easily prevented from being a major failure. By checking your gearbox periodically, you can reduce the long downtime in repairs and lead time in obtaining spare parts.

#### Why do Borescope Inspection

The consequences of jacking system failure can be very costly, from long downtime to long logistical support of spare parts. The worst case scenario will be jacking system failure during rig moves & jacking operations, as this could escalate to become safety issues.

Borescope inspection offers a non-disruptive evaluation on possible gearbox failure such as scoring, wear, pitting, plastic flow, tooth breakage, bearings excessive abrasive, bruising, grooving, corrosion & discoloration. It would be a more cost effective method to a complete health assessment of your gearbox.



#### When to do Borescope Inspection

- Rig with long jacking operating time.
- Rig undergoing 5years inspections.
- Gearbox with abnormal Sound, vibration and/or temperature.
- Gearbox that fails its periodic oil analysis.
- Planned Gearbox maintenance program.

#### Benefits of using Borescope Inspection

- Full health check on Gearbox internal conditions, Gears and Bearings.
- Early detection of Gearbox components failure
- Inspection Reports documentation with image evidence.
- Reduce risk of jacking Gearbox failure.
- Hassle free no gearbox removal required.



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Aftersales Services