Condition performance monitoring is crucial for reducing failures.

Monitoring and inspection are preferred over intervention.

Subsea control modules have the highest failure rates.

**COMMON FAILURES**

- DCV wear-out leading to POD change.
- Umbilical insulation degradation leading to water ingress and communication shorts.
- DCV wear-out leading to hydraulic fluid leakage.
- Communication efficiency degradation due to aging.

**HOW TO PREDICT FAILURE**

**COLLECT DATA**
- Pump runtime
- Valve operations
- Hydraulic fluid flow at all measurable locations
- Comms

**PROCESS DATA**
- Trend pump usage rates
- Trend DCV usage rates
- Analyze expected hydraulic fluid consumption
- Trend comms efficiency

**UNDERSTAND HEALTH STATUS**
- Est DCV wear-out date
- Est pump service date
- Indication of potential leakage
- Locate potential hydraulic leakage
- Est comms failure date


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