



Maximize the Benefits of Cost-Effective Ownership

OEM Certified Support

Delta™ is a premium connection that extends product life by reducing repair rates and lowering total cost of ownership. Superior performance features include faster makeup, greater opportunity for refacing with maintenance costs comparable to API interchangeable connections.

To validate Delta's robustness, repair rates are monitored by NOV's technical support team and field data from both Grant Prideco™ & Tuboscope™ confirms significantly lower repair rates when inspections are performed according to OEM field procedures.

Occasional increases in repair rates from pipe inspected by 3rd party inspection companies prompted Grant Prideco and Tuboscope to perform a secondary inspection, revealing a considerable discrepancy between the initial inspection and the re-inspection to OEM criteria.

These out of the norm recut rates create costs for asset owners through several ways and increase backlog at licensed repair facilities.

Based on these findings, we now offer the Delta Prime service: a secondary inspection performed exclusively by Tuboscope certified inspectors that provides OEM aligned support to maximize useful asset life.

The Delta Prime program applies to used drill pipe previously inspected by 3rd party inspection companies that is marked for recut repair. The cost of the program is a percentage of the recut savings rather than a direct per connection price, but the biggest savings is the product life.

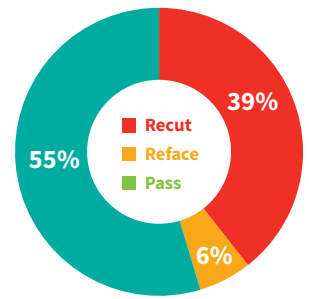
How does it work?

- Pipe inspected by 3rd party inspection company received at Tuboscope machine shop for repair. If a minimum quantity is met, Tuboscope Machine Shop contacts the asset owner to offer a Delta Prime secondary inspection service.
- If accepted, certified inspectors perform detailed thread inspection according to OEM field inspection criteria. All inspection criteria are accessible to asset owners/inspection companies via the Grant Prideco Connection Library in GP2Go.
 - Joints originally marked for recut and reinspected with same results will be repaired as originally planned
 - Reclasses from recut to reface, can save up to 25% of asset life as tool joints on drill pipe must meet a minimum length requirement

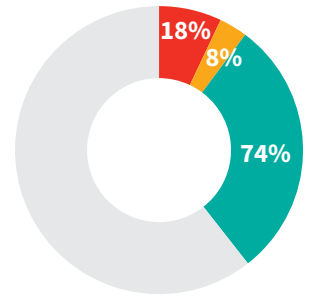
Benefits

- OEM certified support ensures adherence to Delta specific inspection procedures
- OEM access to technical support
- Adhering to OEM field inspection criteria has shown a recut rate in the 6% on average
- Maximize asset life/extend tool joint life as tool joints can only be recut a limited number of times
- Reduce unnecessary maintenance costs
- Increase available capacity at machine shops and reduce repair turnaround times

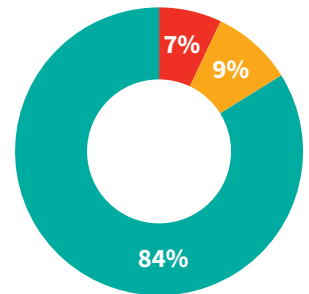
Initial Inspection Results



Prime Re-Inspected Results (Tagged For Recut)



New Inspection Results



Example of Delta Prime Inspection

1 string with 500 jts of DP

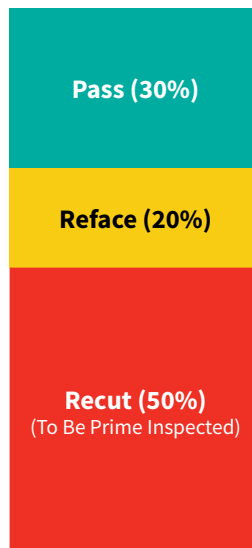
(1,000 connections)

- Prime does not affect the originally passed connections
This does not change the cost of ownership
- Prime does not affect the originally reface connections
This does not change the cost of ownership
- Prime can reclassify to pass 20% of connections
- Prime can reclassify to reface 20% of connections
- Prime can leave 10% of connections as recut
This does not change the cost of ownership

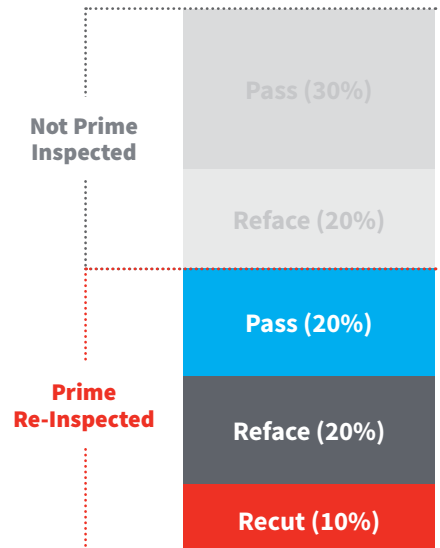
Product life saving (*4 recuts per end – 4,000 total)

The 40% reclassification will save asset life

Original Inspection Results



Secondary Inspection Results



Not Prime Inspected

Prime Re-Inspected

*Minimum number based on average repair loss