

# Packer Wear Guage

## User Instructions

Packer Wear Gauge kit (part number series J-28856-x) for use with the LORD Telescopic Joint (TJ) Split Packers is supplied as a visual indicator and reference for wear on the TJ packer. The Packer Wear Gauge (Figure 1) indicates the remaining thickness of the TJ packer elastomer and is one data point the rig may use to determine whether to run a packer on a subsequent well. The gauge should be used in combination with other available rig data such as operating conditions, type of operation, and the planned duration of the next well.

The Packer Wear Gauge is used at the split of the TJ packer on the side with the 'groove' to indicate the relative elastomer wear of the packer. The elastomer at the groove is critical for the correct sealing of the tongue and groove seal at assembly. The elastomer typically wears around the top third of the packer inside diameter and normally wears evenly around the inside circumference. Figure 2 shows the typical wear location of the packer. The gauge indicates "good", "marginal", and "replacement" elastomer thickness.



Figure 1. TJ Packer Wear Gauge

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Figure 2. Packer Typical Wear Location



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Figure 3 shows the packer gauge on a new packer.

Figure 4 shows the appearance of a TJ packer with minimal wear, in the “good” range of the gauge.

Figure 5 shows the appearance of a TJ packer with marginal elastomer thickness. It is operator judgement whether to replace the packer or to continue running based on the run duration and specific anticipated operating conditions. The entire packer may be checked to confirm the area of maximum material wear.

Figure 6 shows the appearance of a TJ packer with elastomer thickness warranting replacement due to minimum material constraints required at the tongue and groove. The entire packer may be checked to confirm the area of maximum material wear.



**Figure 3.** Packer Wear Gauge on New Packer



**Figure 4.** Wear Gauge Use - GOOD Elastomer Thickness



**Figure 5.** Wear Gauge Use - MARGINAL Elastomer Thickness



**Figure 6.** Wear Gauge Use - REPLACEMENT Elastomer Thickness

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