

Short Bit & Tool Co.

Custom Diamond & Carbide Manufacturing Since 1984



**Case History: 4.4" x 3.4" XDS Shoe
Shoe
Cutting Incoloy 925 Flapper**

Typical carbide shoe run on incoloy 925 flapper valve without much luck. The 4.4" x 3.4" XDS Impreg shoe was run on motor / CT for Marathon Oil in Brae field offshore Scotland by Welltonic in 2006.

WOB was minimal, say 2,000 lbs max. GPM was approx 70 with a 2-7/8" OD Motor with 5:6 lobe ratio 7 stage, giving approximately 400 RPM.

We did make some headway with a crushed carbide shoe but we had problems bedding in and had a lot of stalls, we were also concerned about work hardening the flapper.

Your XDS shoe is only worn about 10%.



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