

BLAZE TREATED AR BEARINGS Increases Run Life In Difficult Application

Blaze® AR bearings for ESP applications offer superior abrasion resistance, unmatched corrosion resistance, reduced heat during operations and elimination of fracture failures.

CHALLENGE

A large operator in the Powder River basin was seeking to increase the run life of an ESP system. The operator was dealing with **short run times** of approximately 35 days.

Gas slugging conditions leading to low or no flow fluid rates contributed to extreme downhole **heat** and **thermal shocking of Tungsten Carbide (TC) bearings, resulting in fracture failures** and catastrophic damage to surrounding downhole components.

SOLUTION

BLAZE AR bearings were introduced as an alternative to TC and selected by the operator for a trial. No other changes were made.

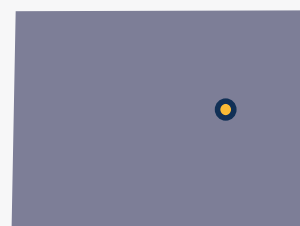
RESULTS

By utilizing **BLAZE AR bearings**, the current ESP system has so far surpassed the prior **3 installations by more than 5X**. At the time of publication, the BLAZE treated ESP is still installed and running.



PROJECT DESCRIPTION

Locations
Powder River Basin



Customer:	Large Independent
Lift Type:	ESP
Initial ESP Run:	183 Days
2nd ESP Run:	30 Days
3rd ESP Run:	64 Days
4th ESP Run:	12 Days
Current BLAZE ESP Run:	204 Days and Counting
Avg Run Time Increase:	5X and Counting



Top Left: Broken TC bearing from top pump. Bottom Left: Damaged stage in top pump. Right: Cut shaft.



Contact your local representative for more information on Blaze products or our treatment as a service (TAAS).