

METHOD OF REPAIRING SPLINE AND SEAL TEETH OF A MATED COMPONENT

ABSTRACT OF THE DISCLOSURE

A method of repairing spline and seal teeth (20) of a mated component (10) is disclosed. The method includes a low energy input weld to deposit a repair material (50) on the non-worn, non-pressure face (34) of the splines (20) while minimizing the HAZ grain size. The splined area (12) of the component (10) is then remachined to the original spline contour by removing original material from the worn, pressure face (40) of the splines (20) and excess repair material (50) to produce a mated component (10) with radially re-clocked splines (20') that have original component material on the pressure face (40') of the teeth (20').

Fig. 2