

ARC T7AR Biofuel Production Plant

Ethanol production from Corn

Corn Mash Pumps Failing after only 6 Months Duty

- Sio-ethanol produced from Corn Mash
- Pumps replaced after 6 months
- Total of 22 pumps with same issues
- Ost of new Duplex back plate >5000 Euro
- Mechanical seals also needed replacement when installing new pumps
- Operating temperature 85C (185F)







ARC T7AR Application - Back Plate and Volute Before Machining







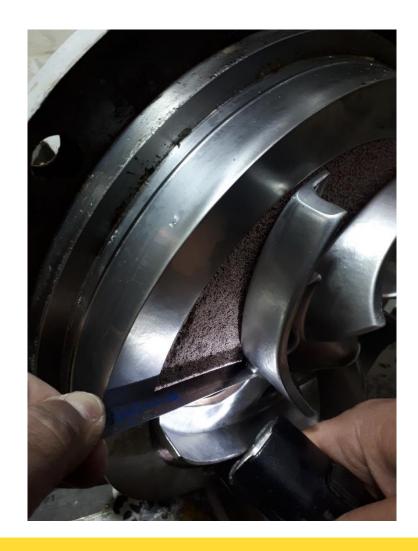
Machining T7AR







Back Plate with T7AR – Inspection After 6 months







Results

- ARC T7AR trialed on two pumps
- After 6 months, no measurable loss of ARC T7AR on pump volute;
- Only 1 to 1.5mm loss of T7AR on wear plates visible after 6 months
- Customer estimates ARC T7AR will give 3X increase in pump duty before repairs to the ARC T7AR required
- Pumps can be repaired with ARC T7AR
- No new replacement parts required
- Based on trial results, customer will protect a further 12 pumps with T7AR

