



TRITEC LIP SEAL EXCEEDS 5,500 HOURS OF TESTING WITH NO LEAKS FOR ELECTRIC CAR DRIVE SYSTEM

PROBLEM

A leading developer and producer of high value EV and HEV industry drivetrains was conducting developmental testing and soon found the original lip seals specified would begin to leak within a few hours of start up on the testing stand. They tried several other seal options over the course of a year with no success.

After hearing about TRITEC's reputation as a leader in the PTFE Lip Seal market, the company reached out to TRITEC for a custom solution to their issue

TRITEC SOLUTION

Upon initial investigation, TRITEC identified several issues including improper running surface finish (shaft), improper material selection and improper past design consensus. TRITEC then developed a robust engineered sealing solution with the appropriate shaft surface finish and correct design and material selection for the application. TRITEC's Lip Seal more than exceeded expectations with over 5,500 hours of testing with no leakage. This lip seal design also conformed to the IP67 testing requirement the customer needed.

SPECIFICATIONS

TEMPERATURE:	65 °C
SHAFT RPM:	18,000
PRESSURE:	40 PSI
MEDIA TO SEAL:	50% Ethylene / 50% Water
FLOW:	1.5 Gallons / Minute
CERTIFICATIONS:	Pass IP67 Water Test

