Application: Drive Shaft Measurement for Shift Harshness Evaluation

The Challenge

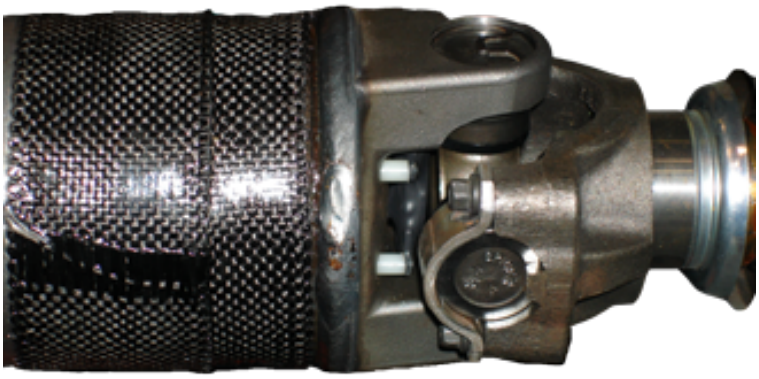
A transmission manufacturer wanted to measure real-world shift harshness over time, with road trips incorporating both hot and cold, and dry and wet conditions.

System Requirements

- ✓ Power Efficient: Long road trips necessitated a system with a long battery life.
- ✓ Withstand harsh environment: The system would be exposed to a wide temperature range, and wet conditions, as data was collected in the field.
- ✓ Compact: The system had to be mounted at the end of the driveshaft, into the small space between the driveshaft and U-Joint, and so required both a small footprint and a low profile.

The TECAT Solution

TECAT's WISER telemetry system was used to measure torque on the driveshafts of multiple test vehicles. The team was able to collect long-term test data, looking for torque spikes throughout the data.



WISER Mounted at the End of the Driveshaft

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