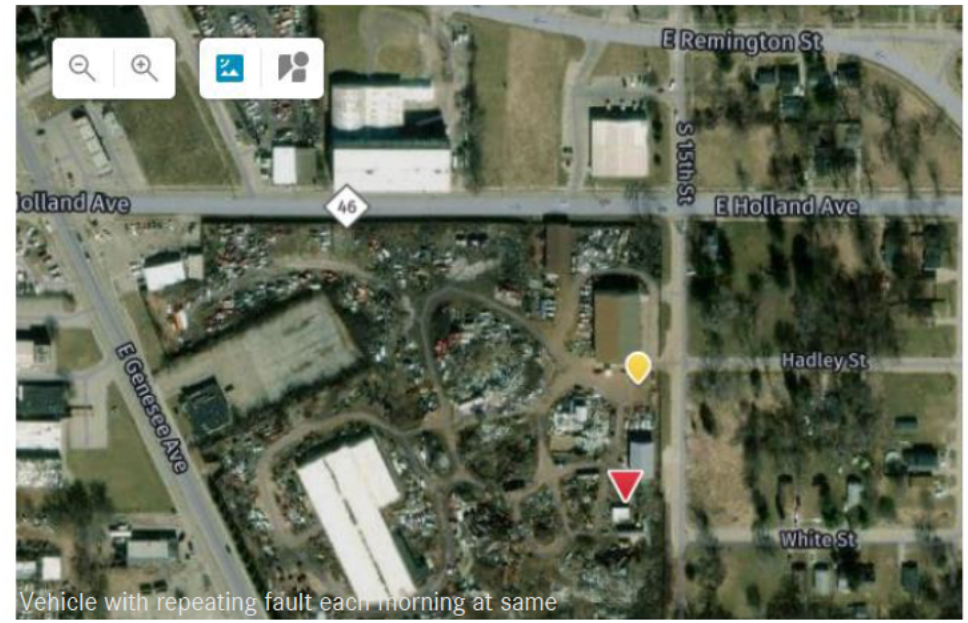
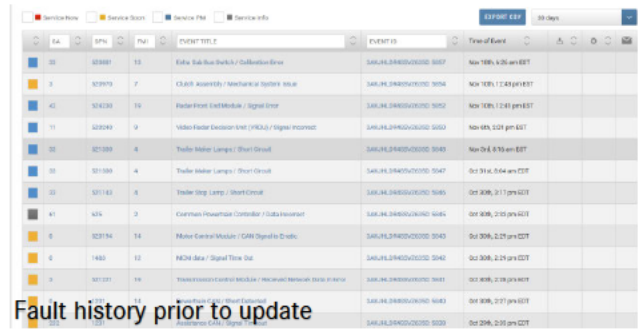
TCM Fault 520970/7 – Clutch Unable to Open Fully

Issue Description	Nuisance occurrences of TCM fault 520970/7 Clutch Unable to Open Fully
Status & Details	Potentially related to startup sequence, air leaks → low air pressure during clutch/CPCA startup activation sequence MY2026 TCM software (R25.1) increases threshold from 5.0 bar (72.5 psi) to 5.5 bar (80 psi) for startup sequence
Field Action	TBD. DDC Engineering access to customer vehicles to validate MY26 TCM software • Vehicle was brought to DDC for investigation – found leaking check valve on DT12 aux air tank (adding checks to troubleshooting) Currently monitoring: • 1 instance of 520970/7 was set on Nov 10 • Requesting DiagnosticLink log file to be sent for review of fault data (Koch)
Identifying Features	TCM software R23.1 shows to be more sensitive due to high clutch opening at startup
Reference Documentation	TechLit troubleshooting should be followed for fault
Additional Information	



Vehicle with repeating fault each morning at same location


Fault history prior to update