

# LIGHT VEHICLE FIRES

#### INCIDENT

During 1998, two Toyota Landcruiser vehicles at opencut mines caught fire. The fires were due to electrical faults in the engine compartment of the vehicles.

### CIRCUMSTANCES

One of the vehicles had additional lighting fitted as an after-market upgrade. The wiring loom passed through an unbushed hole in the mudguard. Vibration caused insulation damage, resulting in a short circuit and fire.

The other vehicle had a cover missing from a slave relay enclosure. The enclosure filled with foreign material causing a short circuit and resultant fire.

## INVESTIGATION

In both cases the electrical protection for the faulted circuits was provided by a "fusible link" rated at 65 amps. Testing showed that the "fusible link" would not isolate the faulted circuits at a current flow of 200 amps.

Efficient aftermarket wiring of auxiliary apparatus and better maintenance would have prevented the faults occurring.

### RECOMMENDATIONS

All Toyota Landcruisers vehicles are to be fitted with a replacement electrical protective device, (Toyota Part No. 82620 60010) and to have the "Fusible Link".removed.

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