

ENGINEERING INCIDENTS TO NUCLEAR CONVOY VEHICLES
1 January 2000 – 30 June 2007

	Date	Description & Cause	Outcome
1	December 2001	Mechanical fault on Convoy Support Vehicle.	No delay to movement.
2	March 2002	At rest break, wheel of load carrier showed signs of overheating. Wheel brake binding slightly.	Brake adjusted at rest break and problem cured.
3	March 2002	Scraping noise heard from coach. Metal bracket broken.	Bracket repaired at roadside, coach proceeded.
4	March 2002	Brakes of load carrier trailer binding slightly.	Brake adjusted at rest break and problem cured.
5	June 2002	Puncture to rear tyre of escort motorcycle.	Wheel changed at roadside.
6	August 2002	Engineering fault on Convoy Support Vehicle.	No delay to movement.
7	January 2003	Load carrier engine brake and rev. counter became inoperative due to faulty pulse generator.	Investigated and rectified at terminus.
8	February 2003	Oily smell in cab of load carrier. Oil seepage from front of engine.	Vehicle remained serviceable. Fault rectified at terminus.
9	February 2003	Load carrier clutch became inoperative at staging post. Clutch release bearing displaced from fork.	Clutch release bearing re-aligned.
10	February 2003	Load carrier brake pipe rubbing on structure.	Brake pipe adjusted to better position at rest break.
11	February 2003	Slight leak of hydraulic fluid from steering box pipework of load carrier.	Pipework union adjusted at rest break.
12	February 2003	Leak of engine oil on to roadway from load carrier. Oil leaking from speedometer drive/fuel pump.	Speedometer drive re-sealed at rest break.
13	February 2003	Air leak in load carrier suspension pneumatic system due to faulty valve.	Spare tractor head substituted for faulty unit. Replacement valve purchased. Slight delay to convoy leaving staging post.
14	February 2003	Leak from air-line on load carrier.	Spare tractor head substituted for faulty unit at staging post. No operational impact.
15	February 2003	Faulty valve in load carrier pneumatic system.	Valve replaced at staging post.
16	May 2003	Load carrier engine overheating. Engine thermostat unserviceable.	Spare tractor head substituted for faulty unit at staging post.
17	May 2003	Air leak from load carrier pneumatic system at start-up. Source of leak not traceable in time available.	Spare tractor head substituted for faulty unit before convoy departed.
18	May 2003	Slight fuel leak from rear of load carrier engine. Fuel leaking from low-pressure fuel return line.	Fuel pipe removed, flare end cleaned and replaced at staging post.
19	July 2003	On engine start load carrier engine temperature light and buzzer activated. No defect found.	Symptoms did not recur. No further action.
20	September 2003	Leak from load carrier pneumatic system. Crack in body of air valve.	Valve replaced.
21	September 2003	Slight leak of coolant from load carrier radiator.	Leak repaired with sealant.

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22	October 2003	Descending prolonged steep hill smoke observed coming from load carrier axle drum. Excessive use of wheel brakes during descent.	Brakes allowed to cool and checked for binding. No binding present. Convoy proceeded.
23	December 2003	Bolt observed protruding from load carrier tyre at staging point.	Tyre changed at staging post.
24	February 2004	Excessive air seepage from load carrier pneumatic system.	Leaking air reservoir isolated from system at rest break. 40 min delay in convoy departing rest break.
25	April 2004	Load carrier brakes would not release when parking brake released. Air leak on circuit protection valve.	Pipe connection to valve tightened prior to convoy departure.
26	May 2004	Load carrier engine temperature warning light illuminated at start-up. Fault on warning light sender unit.	Faulty unit disconnected at rest break. Engine temperature monitored by temperature gauge.
27	May 2004	Load carrier brakes holding when parking brake released. Insufficient service line pressure.	Governor valve adjusted.
28	May 2004	No 1 ABS warning light illuminated on load carrier. Faulty solenoid on system	No immediate repair possible, journey continued and condition monitored.
29	May 2004	Load carrier Jacob's Brake not working at staging post. Poor connection on throttle switch.	Clean and tighten connection, check functionality of Jacob's Brake.
30	July 2004	No high range in load carrier gears. Air leak in gear splitter system.	Air feed pipe cut back to remove damaged section and pipe re-fitted at rest break.
31	July 2004	At rest break, very minor fuel leak from fuel pump feed pipe observed on load carrier.	Vehicle cleared safe to continue due to very minor nature of leak. 15 minute delay in convoy departing rest break. New pipe fitted at terminus.
32	July 2004	Load carrier axle brake drum running hot. Axle brake out of adjustment	Brake re-adjusted at rest break.
33	July 2004	Fuel seepage from load carrier engine observed at rest break. Fuel leaking from injection pump.	Fuel pipe replaced from injection low- pressure side to fuel pump. 15 minute delay in leaving rest break.
34	July 2004	Flat tyre on convoy recovery vehicle. Tyre valve faulty.	Tyre changed at staging post.
35	July 2004	Metal object discovered protruding from tyre of convoy recovery vehicle.	Tyre changed at staging post.
36	July 2004	Jacob's Brake operating intermittently. No fault found, problem did not recur.	Vehicle examined in detail on return to base.
37	September 2004	Slight fuel leak observed on load carrier at staging post. Fuel line to pump leaking.	Fuel line tightened at staging post.
38	December 2004	Oil leak from engine/pump area observed on load carrier. Oil feed pipe from engine to compressor broken.	Unable to repair at roadside until arrival of spare parts. Vehicle recovered to base. Slight delay in progress of convoy.
39	January 2005	Smoke issued from load carrier cab fuse box when heated windscreen switched on. Earth connection loose on main buzz bar for screen heater.	Connector tightened and tested but fuse removed for further investigation of system.

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40	January 2005	Jacob's Brake not working and engine rev counter inoperative. Drive to engine speed sensor inoperative due to worn drive peg.	Spare parts fitted at staging post.
41	March 2005	Fresh air re-circulating flap inoperative on load carrier. Securing nut loose.	Problem rectified at terminus.
42	March 2005	ABS warning light illuminating intermittently on load carrier. SPS valve failed.	Valve replaced at staging post.
43	July 2006	Fault developed on quick release valve.	Valve replaced at staging post.
44	September 2006	Fuel systems fault on escort vehicle	Vehicle recovered. No delay to convoy.
45	September 2006	Starter motor fault on load carrier.	Investigated and rectified at terminus.
46	September 2006	Suspected fault with the tyres on load carrier.	No fault found and convoy continued.
47	September 2006	Gear selection fault on load carrier	Fault rectified and convoy continued.
48	January 2007	Engineering fault on support vehicle.	Convoy continued and vehicle recovered.
49	May 2007	Suspected fault with escort vehicle wing mirror.	Fault rectified and convoy continued.
50	June 2007	Load carrier warning light illuminated.	Vehicle recovered. Convoy continued.