

LVV Certification of Weed-Spraying Vehicles

Vehicles adapted for weed-spraying purposes have numerous modifications to allow for storage and spraying of chemicals. This Information Sheet is intended to provide some clarification on which modifications to such vehicles require certification, and what should be looked for.

Weed Spraying vehicles:

These are vehicles fitted with some or all of the following:

- liquid storage tank, typically 1000 litres
- storage facilities for containers of spray chemicals
- engine-driven pump
- air or hydraulic ram operated spray booms

The equipment and methods of attachment need to be checked to ensure that the vehicle is no more anti-pedestrian than it absolutely needs to be.

Tanks and storage facilities

The mountings of the tank and chemical storage facilities need to be of sufficient strength to handle 20g impact loads. It can be the case that when fully laden the gross weight exceeds the manufacturer's GVM rating. If so, the vehicle will not be able to travel on public roads while the tank is filled, and the tank mountings will only have to handle the weight of the empty tank for LVV certification impact-loading purposes.

Engine-driven pump

This may be a front-mounted pump mounted on a custom fabricated frame. While it may be necessary for functional reasons to be front-mounted, it needs to be checked to ensure that there are no forward-facing spikes or sharp edges, or anything that could 'entrap' a pedestrian or someone standing on a kerb, causing them to be hooked or dragged along.

Alternative locations, such as on the tray, should be used if possible, rather than front-mounting.

Air or hydraulic ram-operated spray booms

These would typically be mounted on the side or rear of the vehicle, and also need to be checked for forward-facing projections or items that could cause pedestrian entrapment. They should have a positive locking or cradle system so that they cannot swing out while the vehicle is travelling between jobs. The locking or cradle system must be in addition to the actuating ram.

Other items

Lighting visibility angles need to be checked that they meet WoF requirements, and some lamps may need to be moved, replaced or have repeater lamps fitted.

Formsets

FS033 - External Projections applies to the LVV Certification of these vehicles.

Example

The following photographs are of a Toyota Landcruiser fitted with a front-mounted engine-driven pump, 1000 litre water tank and air-ram operated spray booms mounted at the rear. The weight with empty water tank, full fuel tank and 5 x 20 litres of spray chemical containers was 2960 kg, which with a driver and passenger will just be under the manufacturer's rated GVM of 3200 kg. The vehicle must travel to jobs empty due to the weight limitations.

If you have any queries or require any further clarification relating to this Information Sheet, please feel to contact the technical team at the LVVTA office on (04) 238-4343.

Photographs



