

Checking load sensing valves at vehicle inspections stations

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Abstract – On a commercial vehicle, braking force is controlled by pressure limiting valves, which are responsible for distributing the braking force to individual axles of the vehicle depending on the load. Due to the importance of this system in vehicle safety, we propose a new universal inspection method that complies with Directives 2009/40/EC and 2010/48/EC and Regulation UN/ECE No 13-H, for vehicles in service based on load simulation techniques. The method can be applied during periodical inspections, and is able to detect any malfunction of the system as a whole, regardless its action mode. The test results obtained with real vehicles validate the method.

Key words: Road safety / periodic technical inspection / UN/ECE No. 13 regulation / load sensing valve / brakes

Nomenclature

p_d	Driving pressure (bar)
F_i	Brake force in the tyre circumference on axle i (N)
F_{dmax}	Maximum static reaction of the vehicle (N)
F_{dmax}	Maximum static reaction of all the axles of the semitrailer (N)
L	Lever length (mm)
MAM	Maximum authorized mass (kg)
p_1	Input LSV pressure (bar)
p_2	Output LSV pressure (bar)
p_{1L}	Pressure of the left suspension diapress (bar)
p_{1R}	Pressure of the right suspension diapress (bar)
LSV	Load Sensing Valve
η_{total}	Braking effectiveness of laden vehicle (%)
$\eta_{trailer}$	Braking effectiveness of laden trailer or semitrailer (%)

1 Introduction

1.1 Operating systems of the load regulation function

The differences in the weight supported by individual axles during the normal use of a commercial vehicle can be sufficiently great to present serious braking problems, which must be taken into account by project designers.

When commercial vehicles operate unladen, excessive pressure in its brake cylinders may cause the brakes to lock, leading to a dangerous loss of stability. On the other hand, brakes that are correctly calibrated for driving empty may turn out to be insufficient when the vehicle is driven under full load, which may be equally dangerous [1].

To solve this problem, Directive 70/320/EEC [2] and Regulation UN/ECE No 13-H [3] consider two solutions:

- Load sensing valves (LSV) installed on the axles, which perceive the applied braking according to the individual axle load.
- Anti-lock braking systems (ABS), which are responsible for avoiding wheel locking.

By itself, an automatically regulated LSV system regulates the distribution of braking force to the vehicle's axles. However, in the case of overbraking, this system cannot avoid wheel lock, which can only be prevented by an anti-lock braking system (ABS), since such systems control braking as a function of skidding.

For this reason, according to Directive 70/320/EEC [2], Annex II, Appendix 1, load sensing valves (LSV, or ALB in German) are not binding when vehicles are provided with ABS, because braking lock is better achieved by ABS than by LSV itself. Regardless of this, the presence of LSV is highly recommended, since this valve is responsible for limiting air pressure in circuits under low

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