

Combination Compatibility with Respect to Stability

GRRF ad-hoc Document No. EVSC05-08

Towing Vehicle		Semi-Trailers				Centre Axle Trailers				Full (Drawbar) Trailers			
		Without ISO7638	With ABS	With RSF	With YC + RSF	Without ISO7638	With ABS	With RSF	With YC + RSF	Without ISO7638	With ABS	With RSF	With YC + RSF
Tractor	Without ISO7638	NC	NC	NC ^{1/}									
	With ISO7638	NC	NC	IMP									
	With DC	IMP	IMP	IMP									
	With DC + ROC	IMP	IMP	IMP									
Truck	Without ISO7638					NC	NC	NC ^{1/}	NC ^{1/}	NC	NC	NC ^{1/}	NC ^{1/}
	With ABS					NC	NC	IMP	IMP	NC	NC	IMP	IMP
	With DC					IMP ^{2/}	IMP ^{2/}	IMP	IMP ^{3/}	IMP ^{2/}	IMP ^{2/}	IMP ^{3/}	IMP ^{3/}
	With DC + ROC					IMP ^{2/}	IMP ^{2/}	IMP	IMP ^{3/}	IMP ^{2/}	IMP ^{2/}	IMP ^{3/}	IMP ^{3/}

YC: Means a yaw control system installed on the trailer

NC: Means that the stability of the combination remains unchanged

IMP: Means that the stability of the combination would or could be improved

1/: Stability function(s) not functional as the tractor has no ISO7638 power supply is available

2/: Identification problem between centre axle and full trailers as the trailer has no electric control line to identify the trailer type

3/: It is not clear how the respective truck and trailer systems will interact and how this will impact on combination stability therefore it may be necessary to define priorities to inhibit either the truck or trailer stability system.