

Truck inspection protocol

Case number	
Reg. number	

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The following variables are not written out but should be used where applicable:

U=Unknown

NA= Not applicable

OT = Other

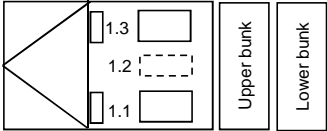
General

Case number			
Reg. Number			
Investigators			
Inspection date		yyyymmdd	
Inspection duration	Start time:	Finished:	Duration:
Distance to inspection		km	
Location of inspection			

Pre-inspection

Source of information for locating vehicle		1=Driver 2=Passenger 3=Owner if not occupant 4=Police 5=Towing service 6=Workshop/car breaker 7=Emergency services
AB Volvo reference number		
Make		
Model		
VIN		
Country of registration of tractor		SE=Sweden DK=Denmark NO=Norway FI=Finland DE=Germany GB=Great Britain NL=Netherlands PL=Poland RU=Russia EE=Estonia LV=Latvia LT=Lithuania
Gross combination weight		kg According to certificate of registration
Year and month of manufacture		yyyymm
Model year		yyyy Only if year/month unavailable
Engine power		kW
Hybrid engine		1=Yes 2=No
Fuel type		1=Petrol and Ethanol 2=Diesel/RMA 3=Electricity 4=Natural/bio gas
Alternative fuel type		1=Petrol and Ethanol 2=Diesel/RMA 3=Electricity 4=Natural/bio gas
Colour		1=Lt red 2=Red 3=Dk red 4=Orange 5=Lt yellow 6=Yellow 7=Lt green 8=Green 9=Dk green 10=Lt blue 11=Blue 12=Dk blue 13=Purple 14=Lt brown 15=Brown 16=Dk brown 17=White 18=Lt gray 19=Silver 20=Gray 21=Dk gray 22=Black 23=Multiple 24=Missing
Number of occupants		

Mark seats, upper bunk and lower bunk if occupied. Mark steering wheel (1.1 or 1.3).



General information

Truck geometry

Overall truck length (excl trailer and connection bar)		m Measured overall length
Overall trailer length (excl trailer and connection bar)		m
Total combination length		m

Case number	Reg number
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Platform height, truck		cm	Ground to lower edge
Platform height, trailer		cm	Ground to lower edge
Chassis frame ground clearance		cm	Ground to lower flange
Cab floorheight		cm	

Gearbox type		1=Manual 2=Automatic 3=Automatic with manual shift mode
Drive of vehicle		1=Left hand drive 2=Right hand drive
Steering on any rear axle		1=Yes 2=No
Trailing axle position		1=Up 2=Down
Truck use		1=Long distance 2=Distribution 3=Mixed

See definitions for the following variables

Truck type		1= Cab over engine (COE) 2=Conventional
Axle arrangement		1=4x2 2=4x4 3=6x2 Tag 4=6x2 Pusher 5=6x4 6=6x6 7=8x2 8=8x4
Type of combination		1=Tractor only 2=Tractor with semi-trailer 3=Tractor with semi-trailer and centre axle trailer 4=Tractor with B-double 5=Tractor other combination 6=Truck only 7=Truck with centre axle trailer 8=Truck with drawbar trailer 9=Truck with dolly and semi-trailer
Truck superstructure		1=Flatbed 2=Van body 3=Dump or tipper 4=Concrete mixer 5=Timber 6=Tanker 7=Fifth wheel 8=Chassis only 9=Waste body 10=Container carrier 11=Wrecker
Truck cab		1=L1H1 (Day cab) 2=L2H1 (Std sleeper 1 bunk) 3=L2H2 (Sleeper 2 bunks) 4=L2H3 (Sleeper, 2 bunks standing height)

Trailer

Trailer type		1=Trailer w/1axle 2=Trailer w/2 axles 3=Trailer w/3 axles 4=Trailer w/4 axles 5=Semitrailer w/1 axle 6=Semitrailer w/2 axles 7=Semitrailer w/3 axles 8=Semitrailer w/4 axles (See definitions)
Steerable semi-trailer		1=Yes 2=No
Superstructure on trailer		1=Flatbed 2=Van body 3=Dump or tipper 4=Concrete mixer 5=Timber 6=Tanker 7=Fifth wheel 8=Chassis only 9=Waste body 10=Container carrier 11=Wrecker (See definitions)
Chassis frame on trailer, ground clearance		cm Ground to lower flange

Comments

Cargo & weight

Weight at accident		kg	<i>Rough estimation, by driver or hauler</i>
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Load distribution truck, before accident		1=Even 2=Uneven 3=Unloaded 4=Movable load
Load distribution trailer, before accident		1=Even 2=Uneven 3=Unloaded 4=Movable load
Load displacement		1=Yes 2=No
Dangerous goods		1=Yes 2=No

Vertical center of gravity, truck		1=High, >1,8 m above ground 2=Medium, 1,5-1,8 m above ground 3=Low, <1,5 m above ground
Longitudinal center of gravity, truck		1=Located in frontal part of load carrier 2=Center 3=Rear
Vertical center of gravity, trailer		1=High, >1,8 m above ground 2=Medium, 1,5-1,8 m above ground 3=Low, <1,5 m above ground
Longitudinal center of gravity, trailer		1=Located in frontal part of load carrier 2=Center 3=Rear

Comments

Safety systems & visibility

Passive safety systems

Bunk restraint		1=Yes, in use 2=Yes, not in use 3=No
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Active safety systems

Electronic stability program (ESP)		1=Yes, in use 2=Yes, not in use 3=No
Lane departure warning (LDW)		1=Yes, in use 2=Yes, not in use 3=No
Adaptive cruise control (ACC)		1=Yes, in use 2=Yes, not in use 3=No
Forward collision warning		1=Yes, in use 2=Yes, not in use 3=No
Cruise control		1=Yes, in use 2=Yes, not in use 3=No
Reversing alarm (sound or lights)		1=Yes, in use 2=Yes, not in use 3=No

Visibility, mirrors

Front mirror		1=Yes 2=No
Side close-up mirror		1=Yes 2=No
Wide-angle mirror, driver's side		1=Yes 2=No
Wide-angle mirror, passenger side		1=Yes 2=No
Main mirror, driver's side		1=Yes 2=No
Main mirror, passenger side		1=Yes 2=No

Visibility, other

Xenon lights		1=Yes, low beam 2=Yes, high beam 3=Yes, high and low beam 4=Yes, not further specified 5=No
Extra light for reversing		1=Yes 2=No
Side camera		1=Yes 2=No
Rear camera		1=Yes 2=No
Alcolock		1=Yes 2=No

Brakes

Tractor brake system		1=No ABS 2=ABS 3=EBS
Trailer brake system		1=No ABS 2=ABS 3=EBS
ABS cables attached		1=Yes 2=No <i>Cables to trailer</i>

Comments

Wheels

Case number	Reg number
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Tractor

Axle	Front		Second				Third				
			Left side		Right side		Left side		Right side		
			Outer	Inner	Inner	Outer	Outer	Inner	Inner	Outer	
Wheel id	11	12	21	22	23	24	31	32	33	34	
Rim type											1=Steel 2=Alloy 3=Small size spare
Tyre type											1=Summer 2=Winter, studded 3=Winter, not studded
Recapped tyre											1=Yes 2=No
Aspect ratio											%
Rim diameter											Inches
Load index											0-279
Tyre speed rating											A1-ZR
Manufacturing date											wwyy
Depth of tyre treads											mm
Super single tyre											1=Yes 2=No
Tyre pressure											kg/cm2
Tyre blown out											1=Yes 2=No

Case number	Reg number
-------------	------------

Wheel id	Tyre make	Tyre name
11		
12		
21		
22		
23		
24		
31		
32		
33		
34		

Wheel id	Tyre condition	Rim condition	Wheel separated
11			
12			
21			
22			
23			
24			
31			
32			
33			
34			

1=Undamaged	1=Undamaged	1=Yes, partly
2=Minor damage	2=Minor damage	2=Yes, completely
3=Major damage	3=Major damage	3=No

Pre-crash tyre condition

Case number	Reg number
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Trailer

	Front axle				Second axle				Third axle				
	Left side		Right side		Left side		Right side		Left side		Right side		
	Outer	Inner	Inner	Outer	Outer	Inner	Inner	Outer	Outer	Inner	Inner	Outer	
Wheel id	11	12	13	14	21	22	23	24	31	32	33	34	
Rim type													1=Steel 2=Alloy 3=Small size spare
Tyre type													1=Summer 2=Winter, studded 3=Winter, not studded
Recapped tyre													1=Yes 2=No
Aspect ratio													%
Rim diameter													Inches
Load index													0-279
Tyre speed rating													A1-ZR
Manufactu ring date													wwyy
Depth of tyre treads													mm
Super single tyre													1=Yes 2=No
Tyre pressure													kg/cm2
Tyre blown out													1=Yes 2=No

For single wheel on axle, code as Inner.

Case number	Reg number
-------------	------------

Wheel id	Tyre make	Tyre name
11		
12		
13		
14		
21		
22		
23		
24		
31		
32		
33		
34		

Wheel id	Tyre condition	Rim condition	Wheel separated
11			
12			
13			
14			
21			
22			
23			
24			
31			
32			
33			
34			

1=Undamaged
2=Minor damage
3=Major damage

1=Undamaged
2=Minor damage
3=Major damage

1=Yes, partly
2=Yes, completely
3=No

*Pre-crash tyre
condition*

For single wheel on axle, code as Inner.

Comments

Airbags and seating

Case number	Reg number
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Airbag

Equipped with airbag		1=Yes 2=No
Airbag deployment		1=Not deployed 2=Deployed 3=Deployed but blocked
Airbag damaged		1=Yes 2=No
Airbag removed post-crash		1=Yes 2=No

Seating

Position 1.1 Position 1.2 Position 1.3

Seat belt code

Seat belt type	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=No belt 2=Twopoint belt 3=Threepoint belt in B-pillar 4=Threepoint belt in seat
Upper belt attachment	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=B-pillar 2=Seat
Attachment type	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Fixed 2=Automatically adjustable 3=Manually adjustable
Pretensioner	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Yes 2=No
Pretensioner activated	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Yes 2=No
Load limiter	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Yes 2=No
Safety belt usage	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=No signs 2=Signs of usage 3=Signs of not used
Belt malfunction	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Yes 2=No <i>If yes, specify</i>
Friction marks, webbing	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Yes 2=No
Movement through buckle	<input type="text"/>	<input type="text"/>	<input type="text"/>	1= No 2=Upwards 3=Downwards 4=Both
Belt packing	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=No 2=D-ring 3=Buckle 4=Both
Neck restraint	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=No 2=Yes, adjustable 3=Yes, fixed
Neck restraint position	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Top 2=Middle 3=Bottom
Seat position	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Front (near end position) 2=Middle 3=Rear (near end position)
Backrest position	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=Upright 2=Middle 3=Backward
Backrest deformation	<input type="text"/>	<input type="text"/>	<input type="text"/>	1=No 2=Deformed by occupant 3=Deformed by other occupant 4=Deformed by cargo 5=Deformed by vehicle structure

Deformations

Case number	Reg number
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General

Fire		1=Yes 2=No	
Fire start location		1=Engine and engine compartment 2=Occupant compartment incl dashpanel 3=Load carrier on truck 4=Under vehicle 5=Trailer 6=Other vehicle	
Damage from extrication and/or recovery		1=Yes 2=No	<i>If yes, describe separately</i>
Number of crash events		1=1 event 2=2 events 3=3 events 4=4 or more events	
Cab dislocated		1=Dislocated rearwards 2=Dislocated to the left 3=Dislocated to the right 4=Turned over forward 5=Completely separated 6=Dislocated forward	

Mark impact patterns in sketches in next section

Frontal collisions

Frontal underrun protection		1=Yes 2=No	<i>If yes, describe separately</i>
Frontal underrun protection height		cm	<i>Groundlevel to lower edge</i>
Frontal underrun protection damaged		1=Yes 2=No	<i>If yes, describe separately</i>
Steel front bumper		1=Yes 2=No	<i>Only if frontal underrun protection not present</i>
Steel bumper height		cm	<i>Groundlevel to lower edge</i>

Side impacts

Side underrun protection		1=Yes 2=No	<i>If yes, describe separately</i>
Side underrun protection height		cm	<i>Groundlevel to lower edge</i>
Side underrun protection damaged		1=Yes 2=No	<i>If yes, describe separately</i>

Rear collisions

Rear underrun protection		1=Yes 2=No	<i>If yes, describe separately</i>
Rear underrun protection height		cm	<i>Groundlevel to lower edge</i>
Rear underrun protection damaged		1=Yes 2=No	<i>If yes, describe separately</i>

Rollover

Left A-pillar		1=None or minor deformation (0-2 cm) 2=Moderate deformation (3-10 cm) 3=Major deformation (>10 cm) 4=Rupture	
Left B-pillar		1=None or minor deformation (0-2 cm) 2=Moderate deformation (3-10 cm) 3=Major deformation (>10 cm) 4=Rupture	
Left C-pillar		1=None or minor deformation (0-2 cm) 2=Moderate deformation (3-10 cm) 3=Major deformation (>10 cm) 4=Rupture	
Right A-pillar		1=None or minor deformation (0-2 cm) 2=Moderate deformation (3-10 cm) 3=Major deformation (>10 cm) 4=Rupture	
Right B-pillar		1=None or minor deformation (0-2 cm) 2=Moderate deformation (3-10 cm) 3=Major deformation (>10 cm) 4=Rupture	
Right C-pillar		1=None or minor deformation (0-2 cm) 2=Moderate deformation (3-10 cm) 3=Major deformation (>10 cm) 4=Rupture	
Roof deformation over seat position 1.1		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm)	
Roof deformation over seat position 1.2		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm)	
Roof deformation over seat position 1.3		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm)	
Front roof header deformation		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm)	

Case number	Reg number
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Doors and glazing

Door function		1=Openable 2=Openable only from outside 3=Openable only from outside 4=Unopenable 5=Door opened in crash
Left frontal door opening, longitudinal deformation		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm) <i>Measure at door latch level</i>
Left frontal footwell area, longitudinal deformation		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm)
Right frontal door opening, longitudinal deformation		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm) <i>Measure at door latch level</i>
Right frontal footwell area, longitudinal deformation		1=None or minor (0-2 cm) 2=Moderate (3-10 cm) 3=Major (>10 cm)
Left side dashpanel intrusion		1=None or minor deformation (0-5 cm) 2=Moderate deformation (6-15 cm) 3=Major deformation (>15 cm)
Right side dashpanel intrusion		1=None or minor deformation (0-5 cm) 2=Moderate deformation (6-15 cm) 3=Major deformation (>15 cm)
Windscreen damaged		1=Yes, broken not holed 2=Yes holed and/or partly separated 3=Yes, completely separated 4=No
Bonded windshield		1=Yes 2=No
Sunroof damaged		1=Yes, broken not holed 2=Yes holed and/or partly separated 3=Yes, completely separated 4=No
Loose cargo in cab		1=<25 kg 2=26-50 kg 3=51-100 kg 4 >100 kg 5=Yes, unknown weight 6=No

Powertrain, chassis and engine compartment

Battery damage		1=None or minor damage 2=Moderate visible damage 3=Major damage
Battery attachment		1=Attached 2=Loose
Proven liquid fuel leakage		1=Yes 2=No
Proven gas fuel leakage		1=Yes 2=No
Proven engine oil leakage		1=Yes 2=No
Proven gearbox oil leakage		1=Yes 2=No
Proven power steering oil leakage		1=Yes 2=No
Proven brake oil leakage		1=Yes 2=No
Proven windscreen washer liquid leakage		1=Yes 2=No
Proven cooling liquid leakage		1=Yes 2=No
Proven acid leakage		1=Yes 2=No
Proven other liquid leakage		1=Yes 2=No
Fuel tanks		1=Intact 2=Damaged without holes 3=Damaged with holes 4=Proven leakage
Fuel pipes		1=Intact 2=Damaged without holes 3=Damaged with holes 4=Proven leakage
Steering damaged in crash		1=Yes 2=No
Front axle displacement		1=Yes 2=No
Visible frame damage		1=Yes 2=No <i>If yes, describe separately</i>
Visible damage to brakes		1=Yes 2=No <i>If yes, describe separately</i>

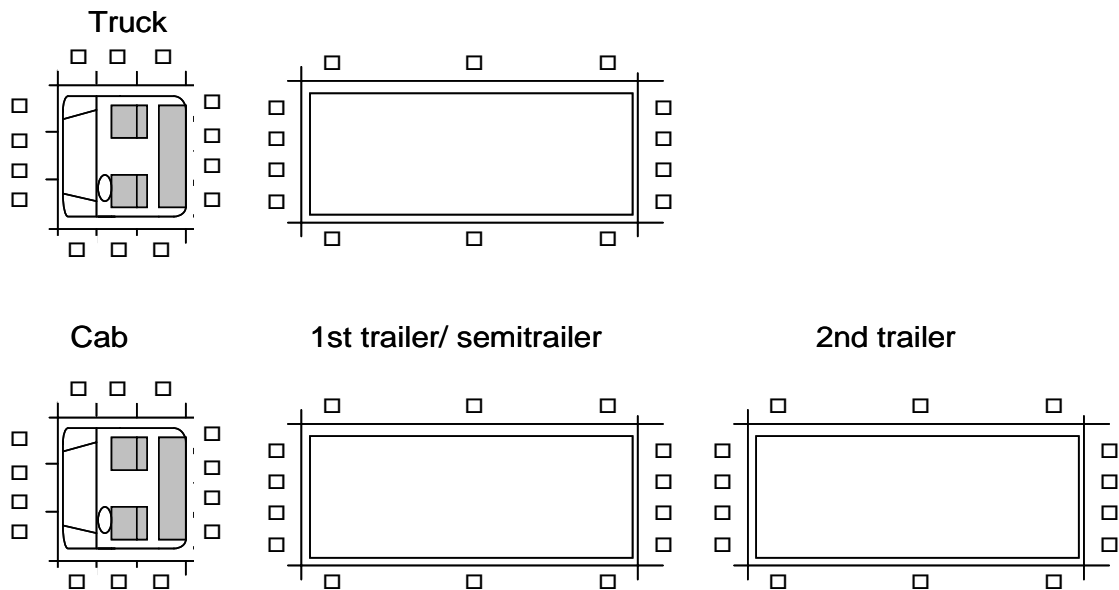
Crash, trailer

Trailer connection damaged		1=Yes 2=No
Trailer brakes damaged (pipes or cables)		1=Yes 2=No

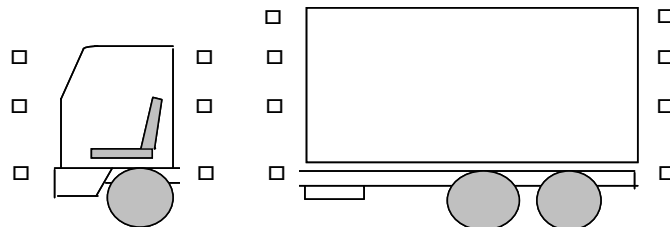
Comments

Impact patterns

Exterior horizontal impact pattern



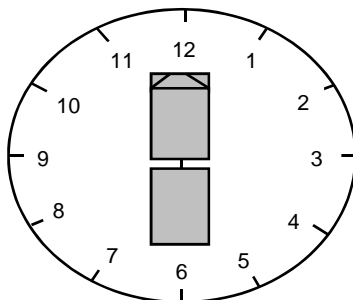
Exterior vertical impact pattern



Tick boxes to mark extent of damage

Direction of impact	
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Use clock pattern below

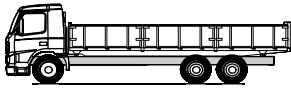


Interior observations

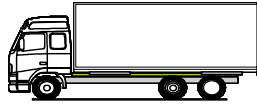
General

Steering wheel out of position		1=Yes 2=No	
Steering wheel deformation		1=Yes, deformed by occupant 2=Yes, deformed by other 3=Yes, unknown cause 4=No	
Rear cab wall deformed		1=Yes 2=No	
Other interior observations		1=Yes 2=No	<i>If yes, describe in figure below</i>
Impact marks		1=Yes 2=No	<i>If yes, describe in figure below</i>

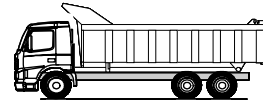
Definitions



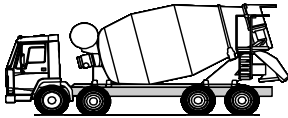
Flatbed



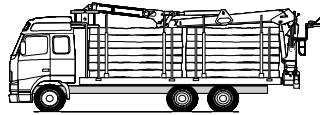
Van body



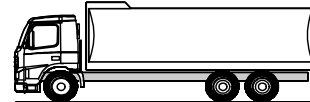
Dump or tipper



Concrete mixer



Timber



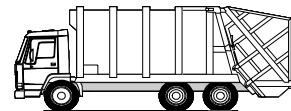
Tanker



Fifth wheel

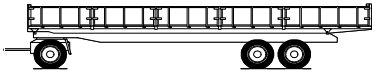


Chassis only

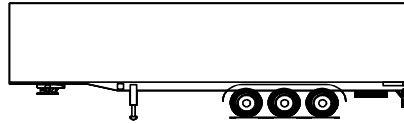


Waste body

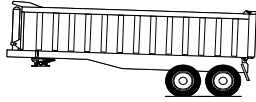
Different kinds of tractors/trucks



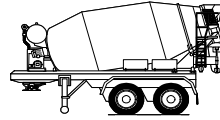
Flatbed



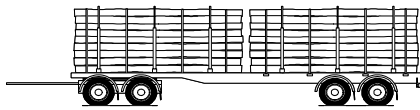
Van body



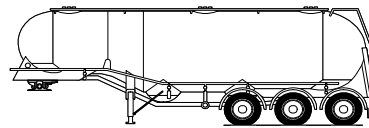
Dump or tipper



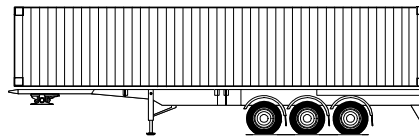
Concrete mixer



Timber



Tanker



Container

Different kinds of trailers

4x2



4x4



6x2
tag



6x2
pusher



6x4



6x6



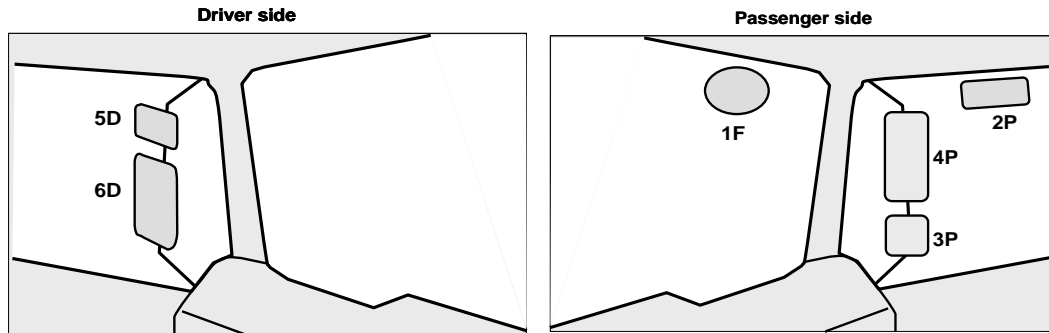
8x2



8x4



Axle arrangements, '+' indicates driven axle



1F Front mirror- close up visibility

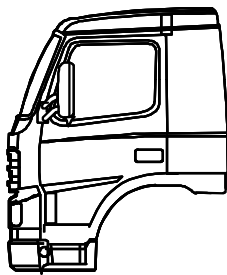
2P Side- close up visibility passenger side

3P Wide angle mirror passenger side, either on top or below

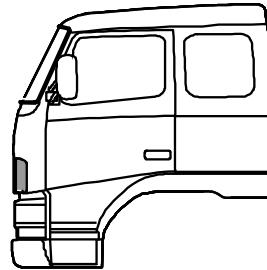
4P Main mirror passenger side

5D Wide angle mirror driver side, either on top or below

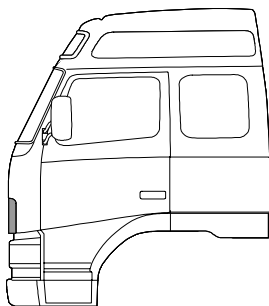
6D Main mirror driver side



L1H1
Day cab
with no
bunk



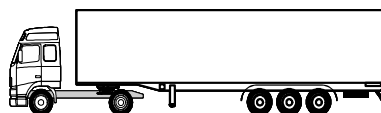
L2H1
One bunk
No standing height



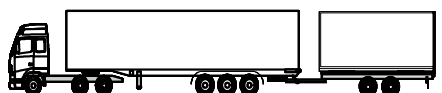
L2H2 and L2H3
Possibly two bunks
Standing height on tunnel



Tractor only



Tractor with semi-trailer



Tractor with semi-trailer
and centre axle trailer



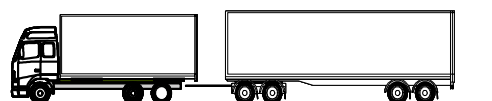
Tractor with B-double



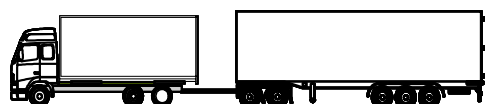
Truck only



Tractor with centre axle trailer



Truck with drawbar trailer



Truck with dolly and semi trailer

Type of combination