



**QUICKLOOK REPORT**  
**Side Validation Testing**  
**2010 Ford Fusion SE 4-Door Sedan NHTSA No. MA0213**  
**June 10, 2009**

Position 1 - ES-2re					
	Units	Limit	Value	t1	t2
HIC 36		1000	174.4	43	72.8
Chest Deflection	MM	44	39		
Combined Abdominal Force	N	2500	691		
Pelvic Force	N	6000	2321		

Position 4 - SID-IIs					
	Units	Limit	Value	t1	t2
HIC 36		1000	316.6	50.4	66.8
Combined Pelvic Force	N	5525	3511		
Lower Spine Acceleration	G's	82	71		

ES-2re Filtered Data					
	Units	Max	Time	Min	Time
Max. Thorax Rib Deflection	MM	39.2	34.0	-3.1	18.5
Lower Spine (T12) Resultant	G's	51.7	31.1	0.0	0.0
Anterior Abdominal Rib Force	N	146.2	40.6	-46.7	27.0
Middle Abdominal Rib Force	N	230.1	40.6	-20.9	22.3
Posterior Abdominal Rib Force	N	404.3	34.8	-9.5	11.0
Pubic Force	N	2321.3	31.4	-55.0	127.3

SID-IIS Filtered Data					
	Units	Max	Time	Min	Time
Max. Thorax Rib Deflection	MM	37.7	56.7	-0.7	283.9
Lower Spine (T12) Resultant	G's	71.0	47.2	0.1	0.0
Max. Abdomen Rib Deflection	MM	29.2	50.4	0.0	5.6
Iliac Force	N	984.0	48.0	-116.4	62.6
Acetabulum Force	N	2860.1	41.0	-19.8	73.2

Vehicle Safety Features	
Pretensioners	Yes
Load Limiters	Yes
Adjustable Belt Anchors	Yes
ABS	Yes
ADLs	Yes

Standards Measured Post-Test	
301- Fuel System Integrity	Yes
305 - Electrolyte Spillage	N/A

Test Vehicle Doors	
Can Disable ADLs Using Owner's Manual	Yes
Doors Locked (Pre-Test)	No
Driver Door Latched (Post-Test)	Yes
Rear Passenger Door Latched (Post-Test)	Yes

Impact Location		
Ref. Line Aft of Frt. Axle	MM	418
Actual Impact Pt. Aft of Frt. Axle	MM	414
Vertical Impact Pt. Difference	MM	5

	Airbag Deployment			
	Driver (P1)		Left Rear Passenger (P4)	
	Deployment	Mount	Deployment	Mount
Head Bag	Yes	Curtain	Yes	Curtain
Torso Bag	Yes	Seatback	N/A	N/A
Combination Bag	N/A	N/A	N/A	N/A
Frontal Bag	No	Steering Whl		

	Test Particulars			
	Metric Units		English Units	
	Units	Value	Units	Value
MDB Velocity	km/h	61.87	mph	38.45
Vehicle Curb Weight	kg	1518	lbs	3345
Vehicle Test Weight	kg	1714	lbs	3779
Vehicle Width	mm	1796	Inches	70.7
Vehicle Wheelbase	mm	2725	Inches	107.3
Vehicle Length	mm	4827	Inches	190.0

Comments:

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