

Test Report

Reference : N° 15/02444

Applicant	SCOPEMA SARL ZAE des Garennes Rue de Pouloueix Mr alexis lemesle F – 87150 ORADOUR SUR VAYRES		
Subject	Seat belt anchorage test on driver and passenger seats equipping X82 Custom vehicle, according to the requirements of the §6.3, §6.4 and 7 of ECE14 regulation.		
Department / Test place	Passive Safety Department (SEP) Autodrome de Linas Montlhéry BP 20212 – 91311 Montlhéry Cedex		
Test date	24/03/2015	Test Reference	AFFSAS1500859
Technician	Pascal GRATAS		
Summary / Conclusion	The tests results are consigned after.		

Full Name	Pascal GRATAS	Jean-Philippe LEPRETRE
Contact	pascal.gratais@utaceram.com +33 (0)1 69 80 34 40	jean-philippe.lepretre@utaceram.com +33 (0)1 69 80 17 32
Function	Contract Leader	Passive Safety Unit Manager
Date	27/03/2015	27/03/2015
Signature		

NB : Les présents essais ne sauraient en aucune façon engager la responsabilité de l'UTAC en ce qui concerne les réalisations industrielles ou commerciales qui pourraient en résulter. "La reproduction de ce document n'est autorisée que sous la forme de fac-similé photographique intégral". Les résultats des essais ne concernent que le matériel soumis aux essais et identifié dans ce rapport d'essais. / UTAC shall not be liable for any industrial or commercial applications that occur as a result of these tests. This test report may only be reproduced in the form of a full photographic facsimile. Tests results are only available for the material submitted to tests or material identified in the present test report.

Union Technique de l'Automobile, du Motocycle et du Cycle
Autodrome de Linas-Montlhéry BP20212 - 91311 Montlhéry Cedex France
Centre d'essais de Mortefontaine - Route du golf - 60128 Mortefontaine
Tel : Montlhéry : +33 (0)1 69 80 17 00 / Mortefontaine : +33 (0) 3 44 54 51 51

Société par actions simplifiée au capital de 7 800 000 euros
TVA FR 89 438 725 723- Siren 438 725 723 RCS Evry
Code APE 7120 B


Summary

1	INTRODUCTION	3
2	SUMMARY OF RESULTS	3
3	PARTS DESCRIPTION	3
4	TESTS CONDITIONS	3
4.1	Anchorage facility configuration.....	3
4.2	Test configuration	4
4.3	Seats adjustments	4
4.4	Allocation of cylinders.....	4
5	TESTS RESULTS	5
5.1	Curves	5
5.2	Pictures.....	5
5.3	Conclusions according to §6.3, 6.4 et 7 of the ECE14 (Seat belt anchorage).....	6

1 INTRODUCTION

Test description : Seat belt anchorage according to the ECE14 requirements
Test aim : Assessment of the static behavior
Test date : 24/03/2015
Test place : Anchorage facility, A. GORDINI Building, UTAC
Customer test number : -
Anchorage test numb. : ANC929

2 SUMMARY OF RESULTS

Test	Result	Remarks
N°1 (Driver and passenger simultaneously)		Good behavior No breaking on seats or seat belts

Legend :  Conform  Not in accordance  Not applicable

3 PARTS DESCRIPTION

Part number	Maker	Part description	Reference	Receipt number
-	SCOPEMA	Driver and passenger seats	-	15Cv026
	RSA	X82		15Cv026

4 TESTS CONDITIONS

4.1 Anchorage facility configuration




Vehicle



Seats and cylinder

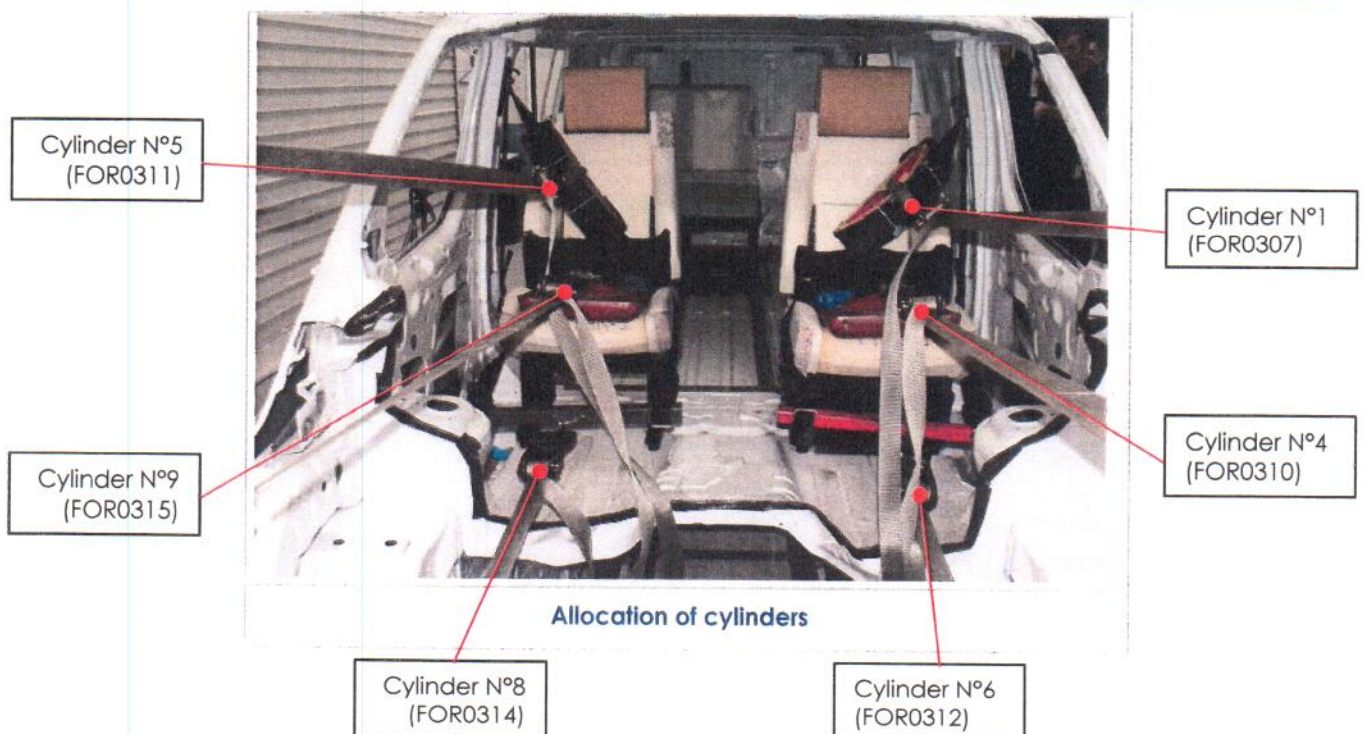
4.2 Test configuration

Test	Test configuration	Pictures
<p>N°1</p> <p>ANC929</p> <p>24/03/2015</p>	<p>ECE14 seat belt anchorage</p> <p>Pre-load on thoracic and lap belt = 200 daN Thoracic belt load = 1350 daN (both seats) Lap belt load = 1350 daN (both seats) Traction angle = 10° +/-5</p> <p>Pre-load on center of gravity = 100 daN Driver center of gravity = 726 daN Passenger center of gravity = 706 daN Traction angle = 0° +/-5</p> <p>Ramp up time = 0.7 sec / Maintain time = 0.2 sec</p>	

4.3 Seats adjustments

Seat	Seat track adjustment	Top seat belt anchorage	Mass (kg)
Driver	Front – 1 notch	Lower	37
Passenger	Rear – 1 notch	Higher	36

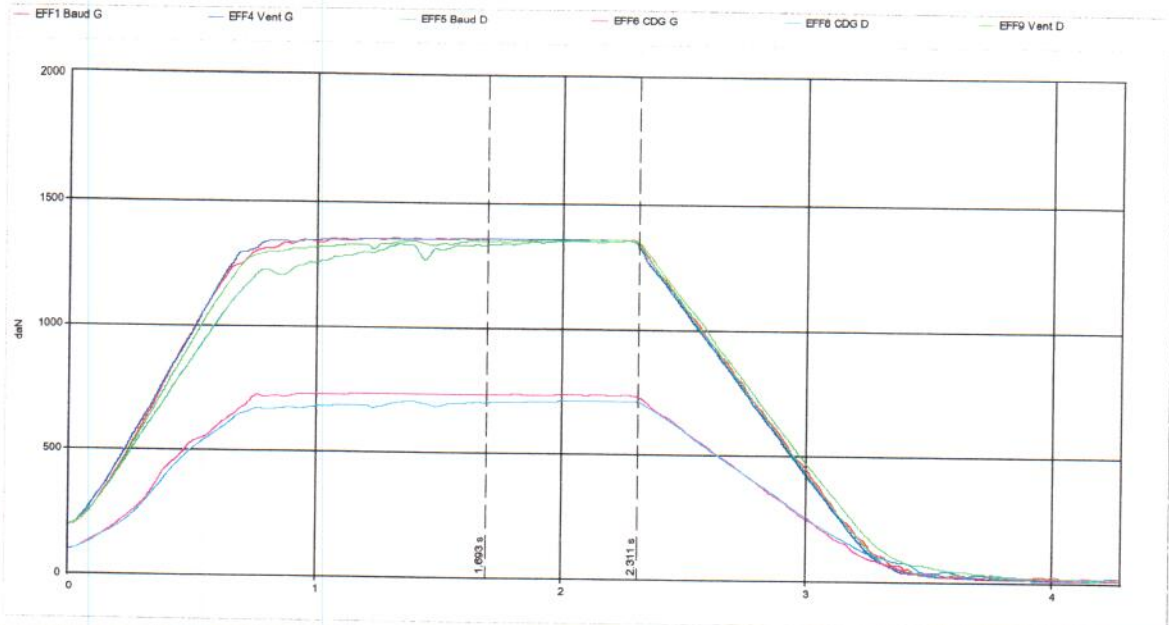
4.4 Allocation of cylinders



5 TESTS RESULTS

5.1 Curves

Ancrages



Effort	Seuf (daN)	Max (daN)	Diff (daN)
1	1350	1359	9
2			
3			

Effort	Seuf (daN)	Max (daN)	Diff (daN)
4	1350	1357	7
5	1350	1351	1
6	726	734	8

Effort	Seuf (daN)	Max (daN)	Diff (daN)
7			
8	708	713	7
9	1350	1356	6

ANC029
24/03/2015

SCOPEMA 15cV026 AFFSAS1500859
2 Sièges Monblenc avec base tournante sur X82

Durée de maintien simultané = 0.62 s
Tolérance = 20 daN / Fréquence d'intégration = 40 Hz

5.2 Pictures



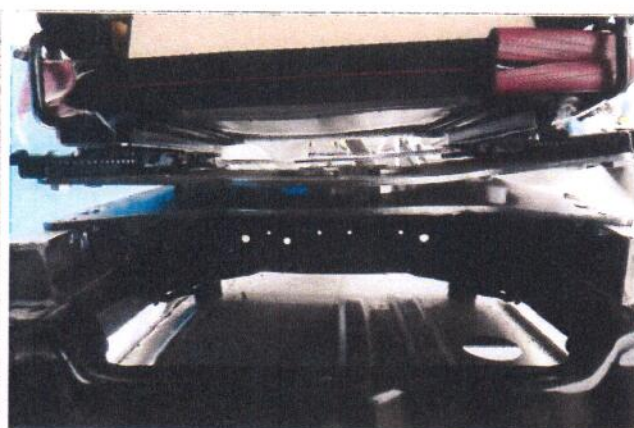
After the test



Passenger seat after the test



After the test



Driver seat after the test

5.3 Conclusions according to §6.3, 6.4 et 7 of the ECE14 (Seat belt anchorage)

Requirements	Results	Remarks
No fixing within 500mm in front of and 300mm to the rear of the device	✓	-
All the anchorages of a group of seats are tested simultaneously	✓	-
Force applied at 10° ±5° above the horizontal	✓	Angle seat belt = 10° Angle center of gravity = 0°
Maximum stress applied as soon as possible (Max = 60sec)	✓	Ramp up time = 1.69 sec
Effort maintained for at least 0.2 sec	✓	Maintained time = 0.62 sec
Distance between the two lower anchorages L1 et L2 ≥ 350 mm	✓	Distance > 350 mm
The effective upper anchorage must remain above the limit of 450mm	NA	-
The effective upper belt anchorage shall not exceed the vertical limit (M1)	NA	-
The effective upper belt anchorage must not exceed the vertical limit +10° (other categories)	NA	-
The rear seat access systems must be operate by hand after testing	NA	RAS

Legend :



Conform



Not in accordance



NA Not applicable