


This MotoCAP safety rating applies to:

Brand: Harley Davidson
Model: Triple-Vent System Canter
Type: Jacket - Leather
Date purchased: 31 July 2018
Sizes tested: L
Gender: M
Style: Cruiser
Test code: J18L10

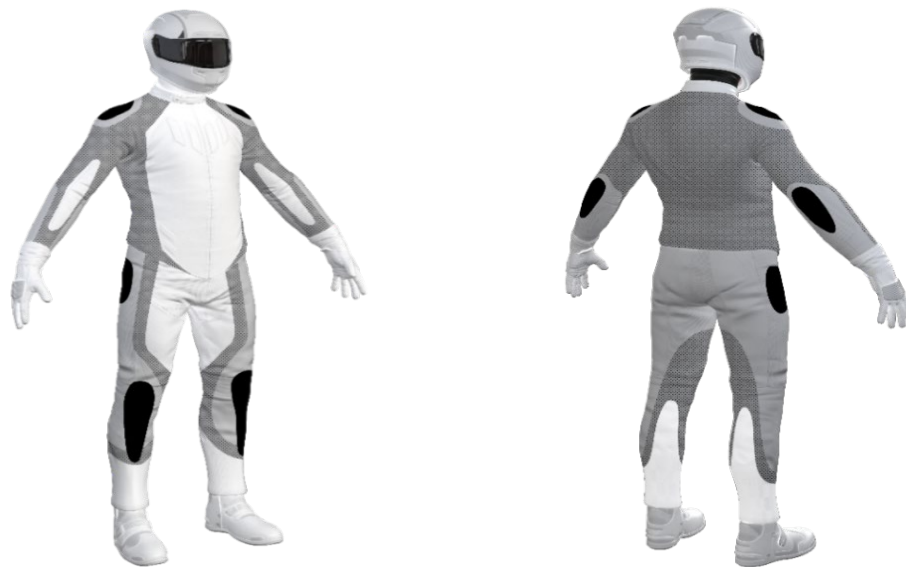
Test Results Summary:

	Rating	Result
MotoCAP Protection Rating	★★	47.8
Abrasion	9/10	6.47
Burst	10/10	1543
Impact	1/10	0.0
MotoCAP Comfort Rating	★	0.335
Moisture Vapour Resistance		45.6
Thermal Resistance		0.254
Water Resistance	N/A	

The garment is not fitted with impact protectors, but pockets are provide for the addition of shoulder and elbow protectors. The triple vent system comprises 3 vertical zippered 300mm vents under each arm, the middle one also functions as the side seam. While these vents may aid cooling in hot weather, riding with the vents open more than 100mm may compromise the burst strength of the garment in a crash.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.


Zone 1


High risk of abrasion
High risk of impact

Zone 2


High risk of abrasion

Zone 3


Medium risk of abrasion

Zone 4


Low risk of abrasion

**Harley Davidson Triple-Vent System Canter
Leather Jacket**

Abrasion Resistance

The garment was tested for abrasion resistance following the MotoCAP test protocols. The table below shows the test results for time to abrade through all layers of the materials. Calculated for each sample by Zone, type and area coverage of each material as a proportion of that Zone.

Details of materials used in garment:

Material A: Single layer of leather outer, soft padding and mesh inner liner
 Material B: Single layer of leather outer and mesh inner liner

Zone	Coverage (%)	Abrasion time for each test (s)						Average (s)	
		1	2	3	4	5	6		
Zone 1 and 2 areas (High abrasion risk)									
Material A	100%	8.18	8.08	4.70	7.26	10.00	10.00	8.04	<input checked="" type="checkbox"/>
Zone 3 area (Medium abrasion risk)									
Material B	100%	3.79	3.45	4.05	4.64	4.46	4.37	4.13	<input checked="" type="checkbox"/>
Zone 4 area (Low abrasion risk)									
Material B	100%	3.79	3.45	4.05	4.64	4.46	4.37	4.13	<input checked="" type="checkbox"/>

The diagram below is a visual indication of the likely abrasion performance of the materials in each Zone calculated from the data in the table above.



Determining Criteria		Good	Acceptable	Marginal	Poor
High abrasion risk	Zone 1/2:	> 5.6	3.0 - 5.6	1.3 - 2.9	< 1.3
Medium abrasion risk	Zone 3:	> 2.5	1.8 - 2.5	0.8 - 1.7	< 0.8
Low abrasion risk	Zone 4:	>1.5	1.0 - 1.5	0.4 - 0.9	< 0.4

Burst Strength

The garment's burst strength was tested following the MotoCAP test protocols. The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each Zone.

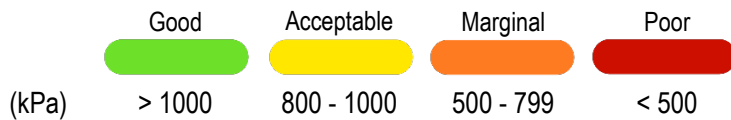
Burst pressure (kPA)

Area	1	2	3	4	5	Average	
Zones 1 & 2	1533	1557	1958	1498	1936	1637	G
Zone EZ	1941	1935	1468	1479	1941	1753	G
Zones 3 & 4	583	522	1464	1591	519	936	A

The diagram below illustrates the burst strength results in terms of the likely performance of the garment in an impact and is a pictorial representation of the data from the table above.



Determining Criteria
Burst strength



Impact Protection

The garment was tested for impact protection and coverage following the MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder	
Average force	50.0	P	50.0	P
Maximum force	50.0	P	50.0	P
Coverage of zone 1 area	0%		0%	
Coverage of zone after displacement	0%		0%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
	A	B	C	A	B	C
Impact Protector 1	50.0	50.0	50.0	50.0	50.0	50.0
Impact Protector 2						
Impact Protector 3						

The diagram below is a visual indication of the likely impact performance of each impact protector calculated from the data in the table above.



Determining Criteria	Good	Acceptable	Marginal	Poor*
Burst strength (kN)	< 15	15 - 24	25 - 30	> 30

* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - R_{et} (kPam ² /W)	49.2	41.9	45.6
	1	2	Average
Thermal Resistance - R_{ct} (Km ² /W)	0.246	0.263	0.254

Water spray and rain resistance

This garment has not been advertised as water resistant so has not been tested for water spray and rain resistance.

Assessment Details.

Brand	Harley Davidson
Model	Triple-Vent System Canter
Type	Jacket - Leather
Date purchased	31 July 2018
Tested by	AMCAF, Deakin University
Garment test reference	J18L10
Rating first published	October 2018
Rating updated	1 October 2021