



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: EA 21-002
Prompted by: EA15-001 Reporting on Desiccated Takata Inflators
Date Opened: 09/17/2021
Investigator: Pedro Bonilla **Reviewer:** Bruce York-B
Approver: Stephen Ridella
Subject: Desiccated Air Bag Inflator Rupture

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Chrysler (FCA US, LLC), Fisker Automotive Incorporated, Spartan Fire, LLC, Mercedes-Benz USA, LLC, Mitsubishi Motors North America, Inc., Ferrari North America, Inc., Land Rover, McLaren Automotive Incorporated, Jaguar Land Rover North America, LLC, Subaru of America, Inc., Honda (American Honda Motor Co.), BMW of North America, LLC, Porsche Cars North America, Inc., Nissan North America, Inc., Mazda Motor Corp., Toyota Motor Corporation, Ford Motor Company, Jaguar Cars, Ltd., Karma Automotive LLC, General Motors, LLC, Takata (TK Global, LLC), Tesla, Inc., Daimler Vans USA, LLC

Products: Various MY 2001 – 2019 Makes and Models

Population: 30,000,000 (Estimated)

Problem Description: The long-term safety—specifically, whether an aging-induced defect exists—of non-recalled desiccated Takata PSAN driver and passenger frontal air bag inflators used for both new vehicle production and as recall remedy repairs will be evaluated through this action.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	0	0	0
Crashes/Fires:	0	0	0
Injury Incidents:	0	0	0
Fatality Incidents:	0	0	0
Other*:	2	0	2

***Description of Other:** Desiccated driver inflator field rupture incidents due to manufacturing related defects, see NHTSA Safety Recalls 17V495 and 19V182 for further details.

ACTION / SUMMARY INFORMATION

Action: Open this Engineering Analysis

Summary:

From 2000 through 2017, Takata produced millions of air bag inflators using two types of phase-stabilized ammonium nitrate (“PSAN”) propellant—propellant 2004 and propellant 2004L. After prolonged exposure to high temperature cycles and humidity, inflators using propellant 2004 can degrade, causing the propellant to burn too quickly when ignited. The rapid burning can cause the inflator to rupture during deployment, potentially causing serious or even fatal injury to vehicle occupants. See 2016 Blomquist Report at www.nhtsa.gov/sites/nhtsa.gov/files/documents/expert_report-hrbloomquist.pdf.

Consequently, all frontal inflators using propellant 2004 that do not contain a “desiccant” (a substance that traps and holds moisture) in US vehicles are under recall. These “non-desiccated” inflators either have been or are required to be replaced.

In some cases, the remedy part for these recalled inflators was, or will be, an inflator using either propellant 2004 or

2004L that does contain a desiccant. None of these “desiccated” remedy parts (which were installed in older model year vehicles) are currently under recall for a degradation concern. Certain subsets of desiccated PSAN inflators using propellant 2004 for use as original equipment, however, have been recalled for a degradation concern. All Takata inflators produced with propellant 2004L contain desiccant, and none of these desiccated inflators using propellant 2004L are under recall for a degradation concern. There have been no reported field ruptures in any non-recalled desiccated PSAN inflators.

It is understood that desiccants fully saturate at some threshold, at which point any additional moisture will not be captured. This means the degradation process observed in non-desiccated inflators using propellant 2004 may also occur in non-recalled desiccated inflators using propellant 2004, assuming additional moisture enters the inflator and high temperature cycling occurs. Based on available information, desiccant saturation can occur within the first five years in the worst environments, and the time required for full saturation is affected by multiple factors. While no present safety risk has been identified, further work is needed to evaluate the future risk of non-recalled desiccated inflators using propellant 2004.

Three entities—Takata (now known as TK Global), the Independent Testing Coalition, and Exponent—have been studying the long-term behavior of Takata desiccated PSAN inflators using propellant 2004L (as well as 2004) in the presence of moisture and temperature cycling. The research efforts, which include development of predictive modeling techniques and field sample analysis, are ongoing. To date, none of the researchers have identified field evidence showing that propellant 2004L is undergoing a degradation process that leads to aggressive deployment and potential rupture. However, the time in service of such inflators remains short compared to that of the inflators using propellant 2004. Further study is needed to assess the long-term safety of desiccated inflators using propellant 2004L.

The Office of Defects Investigation is opening this investigation to examine whether a safety defect related to propellant degradation exists in non-recalled desiccated PSAN frontal inflators manufactured by Takata. This investigation will require extensive information on Takata production processes and surveys of inflators in the field. Lists of recall actions that may have used desiccated PSAN inflators as remedy parts, as well as the makes and models originally manufactured with them, is available with the downloadable version of this document (see [nhtsa.gov/recalls?nhtsald=EA21002](https://www.nhtsa.gov/recalls?nhtsald=EA21002) - note this information is subject to change/revision as the investigation proceeds). This investigation does not supersede EA15-001, which remains open.

ATTACHMENT A: This attachment shows a list of vehicle manufacturers and the makes, model and model years equipped with desiccated PSAN based Takata frontal inflators during new vehicle production. Approximately 25M vehicles were produced using these inflators.

Manufacturer	Make	Model	MY
BMW	BMW	328	2013
BMW	BMW	335	2013
BMW	BMW	228i	2014
BMW	BMW	228i	2015
BMW	BMW	228i	2016
BMW	BMW	230i	2017
BMW	BMW	230i	2018
BMW	BMW	320i	2013
BMW	BMW	320i	2014
BMW	BMW	320i	2015
BMW	BMW	320i	2016
BMW	BMW	320i	2017
BMW	BMW	320i	2018
BMW	BMW	320Xi	2013
BMW	BMW	320Xi	2014
BMW	BMW	320Xi	2015
BMW	BMW	320Xi	2016
BMW	BMW	328D	2013
BMW	BMW	328D	2014
BMW	BMW	328D	2015
BMW	BMW	328D	2016
BMW	BMW	328D	2017
BMW	BMW	328D	2018
BMW	BMW	328i	2013
BMW	BMW	328i	2014
BMW	BMW	328i	2015
BMW	BMW	328i	2016
BMW	BMW	328XD	2014
BMW	BMW	328XD	2015
BMW	BMW	328XD	2016
BMW	BMW	328Xi	2013
BMW	BMW	328Xi	2014
BMW	BMW	328Xi	2015
BMW	BMW	328Xi	2016
BMW	BMW	330E	2016

BMW	BMW	330E	2017
BMW	BMW	330E	2018
BMW	BMW	330I	2017
BMW	BMW	330I	2018
BMW	BMW	335I	2013
BMW	BMW	335I	2014
BMW	BMW	335I	2015
BMW	BMW	335I	2016
BMW	BMW	335I	2017
BMW	BMW	335IS	2013
BMW	BMW	335XI	2013
BMW	BMW	335XI	2014
BMW	BMW	335XI	2015
BMW	BMW	335XI	2016
BMW	BMW	340I	2016
BMW	BMW	340I	2017
BMW	BMW	340I	2018
BMW	BMW	3-SERIES	2013
BMW	BMW	428I	2014
BMW	BMW	428I	2015
BMW	BMW	428I	2016
BMW	BMW	428XI	2014
BMW	BMW	428XI	2015
BMW	BMW	428XI	2016
BMW	BMW	430I	2017
BMW	BMW	430I	2018
BMW	BMW	430I	2019
BMW	BMW	435I	2014
BMW	BMW	435I	2015
BMW	BMW	435I	2016
BMW	BMW	435XI	2014
BMW	BMW	435XI	2016
BMW	BMW	440I	2017
BMW	BMW	440I	2018
BMW	BMW	440I	2019
BMW	BMW	525D XDRIVE	2014
BMW	BMW	528I	2014
BMW	BMW	528I	2015
BMW	BMW	528I	2016
BMW	BMW	528XI	2014

BMW	BMW	530E	2017
BMW	BMW	530I	2014
BMW	BMW	530I	2015
BMW	BMW	530I	2016
BMW	BMW	530I	2017
BMW	BMW	535D	2014
BMW	BMW	535D	2015
BMW	BMW	535D	2016
BMW	BMW	535I	2014
BMW	BMW	535I	2015
BMW	BMW	535I	2016
BMW	BMW	535I	2017
BMW	BMW	535XI	2014
BMW	BMW	540I	2017
BMW	BMW	550I	2014
BMW	BMW	550I	2015
BMW	BMW	550I	2016
BMW	BMW	550I	2017
BMW	BMW	550XI	2014
BMW	BMW	550XI	2016
BMW	BMW	5-SERIES GRAN TURISMO	2017
BMW	BMW	6 SERIES	2012
BMW	BMW	640I	2012
BMW	BMW	640I	2013
BMW	BMW	640I	2014
BMW	BMW	640I	2015
BMW	BMW	640I	2016
BMW	BMW	640I	2017
BMW	BMW	640I	2018
BMW	BMW	640I	2019
BMW	BMW	650I	2012
BMW	BMW	650I	2013
BMW	BMW	650I	2014
BMW	BMW	650I	2015
BMW	BMW	650I	2016
BMW	BMW	650I	2017
BMW	BMW	650I	2018
BMW	BMW	18	2014
BMW	BMW	18	2015
BMW	BMW	18	2016

BMW	BMW	I8	2017
BMW	BMW	I8	2018
BMW	BMW	I8	2019
BMW	BMW	X1	2016
BMW	BMW	X1	2017
BMW	BMW	X1	2018
BMW	BMW	X1 SAV	2016
BMW	BMW	X1 SAV	2017
BMW	BMW	X2	2018
BMW	BMW	X3	2011
BMW	BMW	X3	2012
BMW	BMW	X3	2013
BMW	BMW	X3	2014
BMW	BMW	X3	2015
BMW	BMW	X3	2016
BMW	BMW	X3	2017
BMW	BMW	X3 SAV	2011
BMW	BMW	X3 SAV	2012
BMW	BMW	X4	2015
BMW	BMW	X4	2016
BMW	BMW	X4	2017
BMW	BMW	X4	2018
BMW	BMW	X5	2014
BMW	BMW	X5	2015
BMW	BMW	X5	2016
BMW	BMW	X5	2017
BMW	BMW	X5	2018
BMW	BMW	X5 M	2018
BMW	BMW	X6	2015
BMW	BMW	X6	2016
BMW	BMW	X6	2017
BMW	BMW	X6	2018
BMW	BMW	X6 M	2015
BMW	BMW	X6 M	2016
BMW	BMW	X6 M	2017
BMW	BMW	X6 M	2018
Chrysler	CHRYSLER	300	2011
Chrysler	CHRYSLER	300	2012
Chrysler	CHRYSLER	300	2013
Chrysler	CHRYSLER	300	2014

Chrysler	DODGE	CHALLENGER	2012
Chrysler	DODGE	CHALLENGER	2013
Chrysler	DODGE	CHALLENGER	2014
Chrysler	DODGE	CHALLENGER	2015
Chrysler	DODGE	CHALLENGER	2016
Chrysler	DODGE	CHALLENGER	2017
Chrysler	DODGE	CHALLENGER	2018
Chrysler	DODGE	CHALLENGER	2019
Chrysler	DODGE	CHALLENGER	2020
Chrysler	DODGE	CHARGER	2012
Chrysler	DODGE	CHARGER	2013
Chrysler	DODGE	CHARGER	2014
Chrysler	DODGE	CHARGER	2015
Chrysler	DODGE	CHARGER	2016
Chrysler	DODGE	CHARGER	2017
Chrysler	DODGE	CHARGER	2018
Chrysler	DODGE	CHARGER	2019
Chrysler	DODGE	CHARGER POLICE	2012
Chrysler	DODGE	CHARGER POLICE	2013
Chrysler	DODGE	CHARGER POLICE	2014
Chrysler	DODGE	DURANGO	2018
Chrysler	JEEP	CHEROKEE	2014
Chrysler	JEEP	CHEROKEE	2015
Chrysler	JEEP	CHEROKEE	2016
Chrysler	JEEP	CHEROKEE	2017
Chrysler	JEEP	CHEROKEE	2018
Chrysler	JEEP	COMPASS	2011
Chrysler	JEEP	COMPASS	2012
Chrysler	JEEP	COMPASS	2013
Chrysler	JEEP	COMPASS	2014
Chrysler	JEEP	COMPASS	2015
Chrysler	JEEP	COMPASS	2016
Chrysler	JEEP	GRAND CHEROKEE	2011
Chrysler	JEEP	GRAND CHEROKEE	2012
Chrysler	JEEP	GRAND CHEROKEE	2013
Chrysler	JEEP	GRAND CHEROKEE	2014
Chrysler	JEEP	GRAND CHEROKEE	2015
Chrysler	JEEP	GRAND CHEROKEE	2016
Chrysler	JEEP	GRAND CHEROKEE	2017
Chrysler	JEEP	GRAND CHEROKEE	2018

Chrysler	JEEP	GRAND CHEROKEE	2019
Chrysler	JEEP	LIBERTY	2011
Chrysler	JEEP	LIBERTY	2012
Chrysler	JEEP	PATRIOT	2011
Chrysler	JEEP	PATRIOT	2012
Chrysler	JEEP	PATRIOT	2013
Chrysler	JEEP	PATRIOT	2014
Chrysler	JEEP	PATRIOT	2015
Chrysler	JEEP	PATRIOT	2016
Chrysler	JEEP	WRANGLER	2011
Chrysler	JEEP	WRANGLER	2012
Chrysler	JEEP	WRANGLER	2013
Chrysler	JEEP	WRANGLER	2014
Chrysler	JEEP	WRANGLER	2015
Chrysler	JEEP	WRANGLER	2016
Chrysler	JEEP	WRANGLER	2017
Chrysler	JEEP	WRANGLER	2018
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 1500	2016
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 1500	2017
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 1500	2018
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 2500	2016
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 2500	2017
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 2500	2018
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 3500	2016
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 3500	2017
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 3500	2018
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 4500	2016
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 4500	2017
Daimler Vans, LLC	FREIGHTLINER	SPRINTER 4500	2018
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 1500	2016
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 1500	2017
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 1500	2018
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 2500	2016
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 2500	2017
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 2500	2018
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 3500	2016
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 3500	2017
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 3500	2018
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 4500	2016
Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 4500	2017

Daimler Vans, LLC	MERCEDES-BENZ	SPRINTER 4500	2018
Ferrari	FERRARI	458 ITALIA	2010
Ferrari	FERRARI	458 ITALIA	2011
Ferrari	FERRARI	458 ITALIA	2012
Ferrari	FERRARI	458 ITALIA	2013
Ferrari	FERRARI	458 ITALIA	2014
Ferrari	FERRARI	458 ITALIA	2015
Ferrari	FERRARI	458 SPECIALE	2013
Ferrari	FERRARI	458 SPECIALE	2014
Ferrari	FERRARI	458 SPECIALE	2015
Ferrari	FERRARI	458 SPECIALE A	2014
Ferrari	FERRARI	458 SPECIALE A	2015
Ferrari	FERRARI	458 SPIDER	2012
Ferrari	FERRARI	458 SPIDER	2013
Ferrari	FERRARI	458 SPIDER	2014
Ferrari	FERRARI	458 SPIDER	2015
Ferrari	FERRARI	488 GTB	2016
Ferrari	FERRARI	488 GTB	2017
Ferrari	FERRARI	488 GTB	2018
Ferrari	FERRARI	488 GTB	2019
Ferrari	FERRARI	488 SPIDER	2015
Ferrari	FERRARI	488 SPIDER	2016
Ferrari	FERRARI	488 SPIDER	2017
Ferrari	FERRARI	488 SPIDER	2018
Ferrari	FERRARI	488 SPIDER	2019
Ferrari	FERRARI	CALIFORNIA T	2015
Ferrari	FERRARI	CALIFORNIA T	2016
Ferrari	FERRARI	CALIFORNIA T	2017
Ferrari	FERRARI	F12 BERLINETTA	2013
Ferrari	FERRARI	F12 BERLINETTA	2014
Ferrari	FERRARI	F12 BERLINETTA	2015
Ferrari	FERRARI	F12 BERLINETTA	2016
Ferrari	FERRARI	F12 BERLINETTA	2017
Ferrari	FERRARI	F12 TDF	2016
Ferrari	FERRARI	F12 TDF	2017
Ferrari	FERRARI	FF	2011
Ferrari	FERRARI	FF	2012
Ferrari	FERRARI	FF	2013
Ferrari	FERRARI	FF	2014
Ferrari	FERRARI	FF	2015

Ferrari	FERRARI	FF	2016
Ferrari	FERRARI	GTC4LUSSO	2016
Ferrari	FERRARI	GTC4LUSSO	2017
Ferrari	FERRARI	GTC4LUSSO	2018
Ferrari	FERRARI	GTC4LUSSO T	2018
Ferrari	FERRARI	GTC4LUSSO T	2019
Ferrari	FERRARI	LAFERRARI	2014
Ferrari	FERRARI	LAFERRARI	2015
Ferrari	FERRARI	LAFERRARI	2016
Ferrari	FERRARI	LAFERRARI	2017
Ferrari	FERRARI	LAFERRARI APERTA	2016
Ferrari	FERRARI	LAFERRARI APERTA	2017
Ferrari	FERRARI	PORTOFINO	2018
Fisker/Karma	FISKER	KARMA	2012
Ford	FORD	EDGE	2015
Ford	FORD	EDGE	2016
Ford	FORD	EDGE	2017
Ford	FORD	FUSION	2012
Ford	FORD	FUSION	2013
Ford	FORD	FUSION	2014
Ford	FORD	FUSION	2015
Ford	FORD	FUSION	2016
Ford	FORD	FUSION ENERGI	2012
Ford	FORD	FUSION ENERGI	2013
Ford	FORD	FUSION ENERGI	2014
Ford	FORD	FUSION ENERGI	2015
Ford	FORD	FUSION ENERGI	2016
Ford	FORD	FUSION HYBRID	2012
Ford	FORD	FUSION HYBRID	2013
Ford	FORD	FUSION HYBRID	2014
Ford	FORD	FUSION HYBRID	2015
Ford	FORD	FUSION HYBRID	2016
Ford	FORD	MUSTANG	2015
Ford	FORD	MUSTANG	2016
Ford	FORD	MUSTANG	2017
Ford	LINCOLN	MKC	2015
Ford	LINCOLN	MKC	2016
Ford	LINCOLN	MKX	2015
Ford	LINCOLN	MKX	2016
Ford	LINCOLN	MKX	2017

Ford	LINCOLN	MKZ	2012
Ford	LINCOLN	MKZ	2013
Ford	LINCOLN	MKZ	2014
Ford	LINCOLN	MKZ	2015
Ford	LINCOLN	MKZ	2016
Ford	LINCOLN	MKZ HYBRID	2012
Ford	LINCOLN	MKZ HYBRID	2013
Ford	LINCOLN	MKZ HYBRID	2014
Ford	LINCOLN	MKZ HYBRID	2015
Ford	LINCOLN	MKZ HYBRID	2016
GM	BUICK	CASCADA	2016
GM	BUICK	ENCORE	2013
GM	BUICK	REGAL	2018
GM	BUICK	REGAL TOURX	2018
GM	CADILLAC	XTS	2017
GM	CHEVROLET	CAPRICE	2014
GM	CHEVROLET	CAPRICE POLICE PURSUIT	2014
GM	CHEVROLET	CORVETTE	2014
GM	CHEVROLET	SILVERADO 1500	2014
GM	CHEVROLET	SILVERADO 1500	2015
GM	CHEVROLET	SILVERADO 2500	2014
GM	CHEVROLET	SILVERADO 2500	2015
GM	CHEVROLET	SILVERADO 3500	2014
GM	CHEVROLET	SILVERADO 3500	2015
GM	CHEVROLET	SONIC	2012
GM	CHEVROLET	SONIC	2013
GM	CHEVROLET	SPARK	2016
GM	CHEVROLET	SPARK EV	2016
GM	CHEVROLET	SS	2014
GM	CHEVROLET	TRAX	2013
GM	GMC	SIERRA 1500	2014
GM	GMC	SIERRA 1500	2015
GM	GMC	SIERRA 2500	2014
GM	GMC	SIERRA 2500	2015
GM	GMC	SIERRA 3500	2014
GM	GMC	SIERRA 3500	2015
GM	GMC	SIERRA DENALI	2014
GM	GMC	SIERRA DENALI	2015
Honda	ACURA	ILX	2013
Honda	ACURA	ILX	2014

Honda	ACURA	ILX	2015
Honda	ACURA	ILX HYBRID	2013
Honda	ACURA	ILX HYBRID	2014
Honda	ACURA	ILX HYBRID	2015
Honda	ACURA	RDX	2013
Honda	ACURA	RDX	2014
Honda	ACURA	RDX	2015
Honda	ACURA	RDX	2016
Honda	ACURA	RDX	2017
Honda	ACURA	RLX	2014
Honda	ACURA	RLX	2015
Honda	ACURA	RLX	2016
Honda	ACURA	RLX	2017
Honda	ACURA	RLX HYBRID	2014
Honda	ACURA	RLX HYBRID	2015
Honda	ACURA	RLX HYBRID	2016
Honda	ACURA	RLX HYBRID	2017
Honda	HONDA	ACCORD	2013
Honda	HONDA	ACCORD PLUG-IN HYBRID	2013
Honda	HONDA	ACCORD PLUG-IN HYBRID	2014
Honda	HONDA	CIVIC	2012
Honda	HONDA	CIVIC	2013
Honda	HONDA	CIVIC	2014
Honda	HONDA	CIVIC	2015
Honda	HONDA	CIVIC GX	2012
Honda	HONDA	CIVIC GX	2013
Honda	HONDA	CIVIC GX	2014
Honda	HONDA	CIVIC GX	2015
Honda	HONDA	CIVIC HYBRID	2012
Honda	HONDA	CIVIC HYBRID	2013
Honda	HONDA	CIVIC HYBRID	2014
Honda	HONDA	CIVIC HYBRID	2015
Honda	HONDA	CIVIC SI	2012
Honda	HONDA	CIVIC SI	2013
Honda	HONDA	CIVIC SI	2014
Honda	HONDA	CIVIC SI	2015
Honda	HONDA	CR-V	2012
Honda	HONDA	CR-V	2013
Honda	HONDA	CR-V	2014
Honda	HONDA	CR-V	2015

Jaguar	JAGUAR	F-PACE	2017
Jaguar	JAGUAR	XE	2017
Jaguar	JAGUAR	XF	2016
Jaguar	JAGUAR	XF	2017
Land Rover	LAND ROVER	DISCOVERY SPORT	2015
Land Rover	LAND ROVER	DISCOVERY SPORT	2016
Land Rover	LAND ROVER	DISCOVERY SPORT	2017
Land Rover	LAND ROVER	RANGE ROVER	2013
Land Rover	LAND ROVER	RANGE ROVER	2014
Land Rover	LAND ROVER	RANGE ROVER	2015
Land Rover	LAND ROVER	RANGE ROVER	2016
Land Rover	LAND ROVER	RANGE ROVER	2017
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2012
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2013
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2014
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2014
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2015
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2015
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2016
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2016
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2017
Land Rover	LAND ROVER	RANGE ROVER EVOQUE	2017
Land Rover	LAND ROVER	RANGE ROVER SPORT	2014
Land Rover	LAND ROVER	RANGE ROVER SPORT	2015
Land Rover	LAND ROVER	RANGE ROVER SPORT	2016
Land Rover	LAND ROVER	RANGE ROVER SPORT	2017
Mazda	MAZDA	MAZDA2	2011
Mazda	MAZDA	MAZDA2	2012
Mazda	MAZDA	MAZDA2	2013
Mazda	MAZDA	MAZDA2	2014
Mazda	MAZDA	MAZDA3	2010
Mazda	MAZDA	MAZDA3	2011
Mazda	MAZDA	MAZDA3	2012
Mazda	MAZDA	MAZDA3	2013
McLaren	MCLAREN	570	2016
McLaren	MCLAREN	570	2017
McLaren	MCLAREN	570 GT	2017
McLaren	MCLAREN	570S	2018
McLaren	MCLAREN	650S	2015
McLaren	MCLAREN	650S	2016

McLaren	MCLAREN	675 LONGTAIL	2016
McLaren	MCLAREN	675 LONGTAIL	2017
McLaren	MCLAREN	MP4-12C	2012
McLaren	MCLAREN	MP4-12C	2013
McLaren	MCLAREN	MP4-12C	2014
McLaren	MCLAREN	MP4-12C SPIDER	2013
McLaren	MCLAREN	MP4-12C SPIDER	2014
Mercedes-Benz	MERCEDES-BENZ	AMG C43	2017
Mercedes-Benz	MERCEDES-BENZ	AMG C43	2018
Mercedes-Benz	MERCEDES-BENZ	AMG C63	2017
Mercedes-Benz	MERCEDES-BENZ	AMG C63	2018
Mercedes-Benz	MERCEDES-BENZ	AMG C63S	2018
Mercedes-Benz	MERCEDES-BENZ	AMG CLA45	2014
Mercedes-Benz	MERCEDES-BENZ	AMG CLA45	2015
Mercedes-Benz	MERCEDES-BENZ	AMG CLA45	2016
Mercedes-Benz	MERCEDES-BENZ	AMG CLA45	2017
Mercedes-Benz	MERCEDES-BENZ	AMG CLA45	2018
Mercedes-Benz	MERCEDES-BENZ	AMG CLS63	2017
Mercedes-Benz	MERCEDES-BENZ	AMG CLS63	2018
Mercedes-Benz	MERCEDES-BENZ	AMG GLC43	2016
Mercedes-Benz	MERCEDES-BENZ	AMG GLC43	2017
Mercedes-Benz	MERCEDES-BENZ	AMG GLC43	2018
Mercedes-Benz	MERCEDES-BENZ	AMG GLC63	2018
Mercedes-Benz	MERCEDES-BENZ	AMG GT	2016
Mercedes-Benz	MERCEDES-BENZ	AMG GT	2017
Mercedes-Benz	MERCEDES-BENZ	AMG GT	2018
Mercedes-Benz	MERCEDES-BENZ	AMG GT C	2018
Mercedes-Benz	MERCEDES-BENZ	AMG GT R	2018
Mercedes-Benz	MERCEDES-BENZ	AMG GT ROADSTER	2018
Mercedes-Benz	MERCEDES-BENZ	AMG SLC43	2017
Mercedes-Benz	MERCEDES-BENZ	AMG SLC43	2018
Mercedes-Benz	MERCEDES-BENZ	B160	2016
Mercedes-Benz	MERCEDES-BENZ	B160	2017
Mercedes-Benz	MERCEDES-BENZ	B250E	2014
Mercedes-Benz	MERCEDES-BENZ	B250E	2015
Mercedes-Benz	MERCEDES-BENZ	B250E	2016
Mercedes-Benz	MERCEDES-BENZ	B-CLASS ELECTRIC	2014
Mercedes-Benz	MERCEDES-BENZ	B-CLASS ELECTRIC	2015
Mercedes-Benz	MERCEDES-BENZ	B-CLASS ELECTRIC	2016
Mercedes-Benz	MERCEDES-BENZ	C180	2012

Mercedes-Benz	MERCEDES-BENZ	C200	2015
Mercedes-Benz	MERCEDES-BENZ	C220	2015
Mercedes-Benz	MERCEDES-BENZ	C250	2012
Mercedes-Benz	MERCEDES-BENZ	C250	2013
Mercedes-Benz	MERCEDES-BENZ	C250	2014
Mercedes-Benz	MERCEDES-BENZ	C250	2015
Mercedes-Benz	MERCEDES-BENZ	C250	2016
Mercedes-Benz	MERCEDES-BENZ	C250 D	2018
Mercedes-Benz	MERCEDES-BENZ	C300	2012
Mercedes-Benz	MERCEDES-BENZ	C300	2013
Mercedes-Benz	MERCEDES-BENZ	C300	2014
Mercedes-Benz	MERCEDES-BENZ	C300	2015
Mercedes-Benz	MERCEDES-BENZ	C300	2016
Mercedes-Benz	MERCEDES-BENZ	C300	2017
Mercedes-Benz	MERCEDES-BENZ	C300	2018
Mercedes-Benz	MERCEDES-BENZ	C300 4MATIC	2018
Mercedes-Benz	MERCEDES-BENZ	C350	2012
Mercedes-Benz	MERCEDES-BENZ	C350	2013
Mercedes-Benz	MERCEDES-BENZ	C350	2014
Mercedes-Benz	MERCEDES-BENZ	C350	2015
Mercedes-Benz	MERCEDES-BENZ	C350	2016
Mercedes-Benz	MERCEDES-BENZ	C350	2017
Mercedes-Benz	MERCEDES-BENZ	C350E	2016
Mercedes-Benz	MERCEDES-BENZ	C350E	2017
Mercedes-Benz	MERCEDES-BENZ	C350E	2018
Mercedes-Benz	MERCEDES-BENZ	C400	2015
Mercedes-Benz	MERCEDES-BENZ	C450	2016
Mercedes-Benz	MERCEDES-BENZ	C450	2017
Mercedes-Benz	MERCEDES-BENZ	C63S AMG	2017
Mercedes-Benz	MERCEDES-BENZ	CLA250	2014
Mercedes-Benz	MERCEDES-BENZ	CLA250	2015
Mercedes-Benz	MERCEDES-BENZ	CLA250	2016
Mercedes-Benz	MERCEDES-BENZ	CLA250	2017
Mercedes-Benz	MERCEDES-BENZ	CLA250	2018
Mercedes-Benz	MERCEDES-BENZ	CLS	2012
Mercedes-Benz	MERCEDES-BENZ	CLS400	2015
Mercedes-Benz	MERCEDES-BENZ	CLS400	2016
Mercedes-Benz	MERCEDES-BENZ	CLS550	2012
Mercedes-Benz	MERCEDES-BENZ	CLS550	2013
Mercedes-Benz	MERCEDES-BENZ	CLS550	2014

Mercedes-Benz	MERCEDES-BENZ	CLS550	2015
Mercedes-Benz	MERCEDES-BENZ	CLS550	2016
Mercedes-Benz	MERCEDES-BENZ	CLS550	2017
Mercedes-Benz	MERCEDES-BENZ	CLS550	2018
Mercedes-Benz	MERCEDES-BENZ	CLS63	2012
Mercedes-Benz	MERCEDES-BENZ	CLS63	2013
Mercedes-Benz	MERCEDES-BENZ	CLS63	2014
Mercedes-Benz	MERCEDES-BENZ	CLS63	2015
Mercedes-Benz	MERCEDES-BENZ	CLS63S	2014
Mercedes-Benz	MERCEDES-BENZ	CLS63S	2015
Mercedes-Benz	MERCEDES-BENZ	CLS63S	2016
Mercedes-Benz	MERCEDES-BENZ	E	2012
Mercedes-Benz	MERCEDES-BENZ	E250	2014
Mercedes-Benz	MERCEDES-BENZ	E250	2015
Mercedes-Benz	MERCEDES-BENZ	E250	2016
Mercedes-Benz	MERCEDES-BENZ	E300	2016
Mercedes-Benz	MERCEDES-BENZ	E300	2017
Mercedes-Benz	MERCEDES-BENZ	E330	2013
Mercedes-Benz	MERCEDES-BENZ	E350	2012
Mercedes-Benz	MERCEDES-BENZ	E350	2013
Mercedes-Benz	MERCEDES-BENZ	E350	2014
Mercedes-Benz	MERCEDES-BENZ	E350	2015
Mercedes-Benz	MERCEDES-BENZ	E350	2016
Mercedes-Benz	MERCEDES-BENZ	E350	2017
Mercedes-Benz	MERCEDES-BENZ	E400	2015
Mercedes-Benz	MERCEDES-BENZ	E400	2016
Mercedes-Benz	MERCEDES-BENZ	E400	2017
Mercedes-Benz	MERCEDES-BENZ	E400 HYBRID	2013
Mercedes-Benz	MERCEDES-BENZ	E400 HYBRID	2014
Mercedes-Benz	MERCEDES-BENZ	E400 HYBRID	2015
Mercedes-Benz	MERCEDES-BENZ	E63	2012
Mercedes-Benz	MERCEDES-BENZ	E63	2013
Mercedes-Benz	MERCEDES-BENZ	E63	2014
Mercedes-Benz	MERCEDES-BENZ	E63	2015
Mercedes-Benz	MERCEDES-BENZ	E63	2016
Mercedes-Benz	MERCEDES-BENZ	E63S AMG	2013
Mercedes-Benz	MERCEDES-BENZ	E63S AMG	2014
Mercedes-Benz	MERCEDES-BENZ	E63S AMG	2015
Mercedes-Benz	MERCEDES-BENZ	GLA250	2015
Mercedes-Benz	MERCEDES-BENZ	GLA250	2016

Mercedes-Benz	MERCEDES-BENZ	GLA250	2017
Mercedes-Benz	MERCEDES-BENZ	GLA250	2018
Mercedes-Benz	MERCEDES-BENZ	GLC	2016
Mercedes-Benz	MERCEDES-BENZ	GLC	2017
Mercedes-Benz	MERCEDES-BENZ	GLC300	2016
Mercedes-Benz	MERCEDES-BENZ	GLC300	2017
Mercedes-Benz	MERCEDES-BENZ	GLC300	2018
Mercedes-Benz	MERCEDES-BENZ	GLC350	2018
Mercedes-Benz	MERCEDES-BENZ	GLC350E	2018
Mercedes-Benz	MERCEDES-BENZ	GLC63	2018
Mercedes-Benz	MERCEDES-BENZ	GLC63S AMG	2018
Mercedes-Benz	MERCEDES-BENZ	GLK250	2013
Mercedes-Benz	MERCEDES-BENZ	GLK250	2014
Mercedes-Benz	MERCEDES-BENZ	GLK250	2015
Mercedes-Benz	MERCEDES-BENZ	GLK350	2013
Mercedes-Benz	MERCEDES-BENZ	GLK350	2014
Mercedes-Benz	MERCEDES-BENZ	GLK350	2015
Mercedes-Benz	MERCEDES-BENZ	SL400	2015
Mercedes-Benz	MERCEDES-BENZ	SL400	2016
Mercedes-Benz	MERCEDES-BENZ	SL450	2017
Mercedes-Benz	MERCEDES-BENZ	SL450	2018
Mercedes-Benz	MERCEDES-BENZ	SL550	2013
Mercedes-Benz	MERCEDES-BENZ	SL550	2014
Mercedes-Benz	MERCEDES-BENZ	SL550	2015
Mercedes-Benz	MERCEDES-BENZ	SL550	2016
Mercedes-Benz	MERCEDES-BENZ	SL550	2017
Mercedes-Benz	MERCEDES-BENZ	SL550	2018
Mercedes-Benz	MERCEDES-BENZ	SL63	2013
Mercedes-Benz	MERCEDES-BENZ	SL63	2014
Mercedes-Benz	MERCEDES-BENZ	SL63	2015
Mercedes-Benz	MERCEDES-BENZ	SL63	2017
Mercedes-Benz	MERCEDES-BENZ	SL63 AMG	2016
Mercedes-Benz	MERCEDES-BENZ	SL65	2013
Mercedes-Benz	MERCEDES-BENZ	SL65	2014
Mercedes-Benz	MERCEDES-BENZ	SL65	2015
Mercedes-Benz	MERCEDES-BENZ	SLC 43 AMG	2017
Mercedes-Benz	MERCEDES-BENZ	SLC 43 AMG	2018
Mercedes-Benz	MERCEDES-BENZ	SLC300	2016
Mercedes-Benz	MERCEDES-BENZ	SLC300	2017
Mercedes-Benz	MERCEDES-BENZ	SLC300	2018

Mercedes-Benz	MERCEDES-BENZ	SLK	2012
Mercedes-Benz	MERCEDES-BENZ	SLK250	2013
Mercedes-Benz	MERCEDES-BENZ	SLK250	2014
Mercedes-Benz	MERCEDES-BENZ	SLK250	2015
Mercedes-Benz	MERCEDES-BENZ	SLK250	2016
Mercedes-Benz	MERCEDES-BENZ	SLK250	2017
Mercedes-Benz	MERCEDES-BENZ	SLK300	2015
Mercedes-Benz	MERCEDES-BENZ	SLK300	2016
Mercedes-Benz	MERCEDES-BENZ	SLK350	2012
Mercedes-Benz	MERCEDES-BENZ	SLK350	2013
Mercedes-Benz	MERCEDES-BENZ	SLK350	2014
Mercedes-Benz	MERCEDES-BENZ	SLK350	2015
Mercedes-Benz	MERCEDES-BENZ	SLK350	2016
Mercedes-Benz	MERCEDES-BENZ	SLK350	2017
Mercedes-Benz	MERCEDES-BENZ	SLK55	2014
Mercedes-Benz	MERCEDES-BENZ	SLK55 AMG	2013
Mercedes-Benz	MERCEDES-BENZ	SLK55 AMG	2015
Mercedes-Benz	MERCEDES-BENZ	SLK55 AMG	2016
Nissan	INFINITI	QX30	2017
Nissan	INFINITI	QX30	2018
Nissan	NISSAN	370Z	2009
Nissan	NISSAN	370Z	2010
Nissan	NISSAN	370Z	2011
Nissan	NISSAN	370Z	2012
Nissan	NISSAN	370Z	2013
Nissan	NISSAN	370Z	2014
Nissan	NISSAN	370Z	2015
Nissan	NISSAN	370Z	2016
Nissan	NISSAN	370Z	2017
Nissan	NISSAN	370Z	2018
Nissan	NISSAN	ALTIMA	2013
Nissan	NISSAN	ALTIMA	2014
Nissan	NISSAN	ALTIMA	2015
Nissan	NISSAN	ALTIMA	2016
Nissan	NISSAN	ALTIMA	2017
Nissan	NISSAN	ALTIMA	2018
Nissan	NISSAN	CUBE	2009
Nissan	NISSAN	CUBE	2010
Nissan	NISSAN	CUBE	2011
Nissan	NISSAN	CUBE	2012

Nissan	NISSAN	CUBE	2013
Nissan	NISSAN	CUBE	2014
Nissan	NISSAN	NV200	2013
Nissan	NISSAN	NV200	2014
Nissan	NISSAN	NV200	2015
Nissan	NISSAN	NV200	2016
Nissan	NISSAN	NV200	2017
Nissan	NISSAN	NV200	2018
Nissan	NISSAN	NV200 TAXI	2014
Nissan	NISSAN	NV200 TAXI	2015
Nissan	NISSAN	NV200 TAXI	2016
Nissan	NISSAN	NV200 TAXI	2017
Nissan	NISSAN	NV200 TAXI	2018
Nissan	NISSAN	TITAN	2016
Nissan	NISSAN	TITAN	2017
Nissan	NISSAN	TITAN	2018
Nissan	NISSAN	VERSA	2012
Nissan	NISSAN	VERSA	2013
Nissan	NISSAN	VERSA	2014
Nissan	NISSAN	VERSA	2015
Nissan	NISSAN	VERSA	2016
Nissan	NISSAN	VERSA	2017
Nissan	NISSAN	VERSA	2018
Nissan	NISSAN	VERSA NOTE	2014
Nissan	NISSAN	VERSA NOTE	2015
Nissan	NISSAN	VERSA NOTE	2016
Porsche	PORSCHE	911	2016
Porsche	PORSCHE	911	2017
Porsche	PORSCHE	911	2018
Porsche	PORSCHE	718 BOXSTER	2017
Porsche	PORSCHE	718 BOXSTER	2018
Porsche	PORSCHE	718 CAYMAN	2017
Porsche	PORSCHE	718 CAYMAN	2018
Porsche	PORSCHE	718 CAYMAN	2019
Porsche	PORSCHE	911 TURBO	2016
Porsche	PORSCHE	911 TURBO	2017
Porsche	PORSCHE	911 TURBO	2018
Porsche	PORSCHE	918 SPYDER	2015
Porsche	PORSCHE	BOXSTER	2017
Porsche	PORSCHE	CAYENNE	2015

Porsche	PORSCHE	CAYENNE	2016
Porsche	PORSCHE	CAYENNE	2017
Porsche	PORSCHE	CAYENNE	2018
Porsche	PORSCHE	CAYENNE S E-HYBRID	2015
Porsche	PORSCHE	CAYENNE S E-HYBRID	2016
Porsche	PORSCHE	CAYENNE S E-HYBRID	2017
Porsche	PORSCHE	CAYENNE S E-HYBRID	2018
Porsche	PORSCHE	MACAN	2015
Porsche	PORSCHE	MACAN	2016
Porsche	PORSCHE	MACAN	2017
Porsche	PORSCHE	MACAN	2018
Porsche	PORSCHE	MACAN GTS	2017
Porsche	PORSCHE	MACAN GTS	2018
Porsche	PORSCHE	MACAN S	2015
Porsche	PORSCHE	MACAN S	2016
Porsche	PORSCHE	MACAN S	2017
Porsche	PORSCHE	MACAN S	2018
Porsche	PORSCHE	MACAN TURBO	2015
Porsche	PORSCHE	MACAN TURBO	2016
Porsche	PORSCHE	MACAN TURBO	2017
Porsche	PORSCHE	MACAN TURBO	2018
Porsche	PORSCHE	PANAMERA	2017
Porsche	PORSCHE	PANAMERA	2018
Porsche	PORSCHE	PANAMERA 4	2017
Porsche	PORSCHE	PANAMERA 4	2018
Porsche	PORSCHE	PANAMERA 4 EXECUTIVE	2018
Porsche	PORSCHE	PANAMERA 4 HYBRID	2018
Porsche	PORSCHE	PANAMERA 4 HYBRID EXECUTI	2018
Porsche	PORSCHE	PANAMERA 4 HYBRID SPORT T	2018
Porsche	PORSCHE	PANAMERA 4 SPORT TURISMO	2018
Porsche	PORSCHE	PANAMERA 4S	2017
Porsche	PORSCHE	PANAMERA 4S	2018
Porsche	PORSCHE	PANAMERA 4S EXECUTIVE	2017
Porsche	PORSCHE	PANAMERA 4S EXECUTIVE	2018
Porsche	PORSCHE	PANAMERA 4S SPORT TURISMO	2018
Porsche	PORSCHE	PANAMERA TURBO	2017
Porsche	PORSCHE	PANAMERA TURBO	2018
Porsche	PORSCHE	PANAMERA TURBO EXECUTIVE	2017
Porsche	PORSCHE	PANAMERA TURBO EXECUTIVE	2018
Porsche	PORSCHE	PANAMERA TURBO S E-HYBRID	2018

Porsche	PORSCHE	PANAMERA TURBO S HYBRID	2018
Porsche	PORSCHE	PANAMERA TURBO S HYBRID E	2018
Porsche	PORSCHE	PANAMERA TURBO S HYBRID S	2018
Porsche	PORSCHE	PANAMERA TURBO SPORT TURI	2018
Spartan Fire	SPARTAN	GLADIATOR	2012
Spartan Fire	SPARTAN	GLADIATOR	2013
Spartan Fire	SPARTAN	GLADIATOR	2014
Spartan Fire	SPARTAN	GLADIATOR	2015
Spartan Fire	SPARTAN	GLADIATOR	2016
Spartan Fire	SPARTAN	GLADIATOR	2017
Spartan Fire	SPARTAN	GLADIATOR	2018
Spartan Fire	SPARTAN	GLADIATOR	2019
Spartan Fire	SPARTAN	METROSTAR	2013
Spartan Fire	SPARTAN	METROSTAR	2014
Spartan Fire	SPARTAN	METROSTAR	2015
Spartan Fire	SPARTAN	METROSTAR	2016
Spartan Fire	SPARTAN	METROSTAR	2017
Spartan Fire	SPARTAN	METROSTAR	2018
Spartan Fire	SPARTAN	METROSTAR	2019
Spartan Fire	SPARTAN	METROSTAR-X	2013
Subaru	SUBARU	LEGACY	2015
Subaru	SUBARU	LEGACY	2016
Subaru	SUBARU	LEGACY	2017
Subaru	SUBARU	OUTBACK	2015
Subaru	SUBARU	OUTBACK	2016
Subaru	SUBARU	OUTBACK	2017
Tesla	TESLA	MODEL S	2012
Tesla	TESLA	MODEL S	2013
Tesla	TESLA	MODEL S	2014
Tesla	TESLA	MODEL S	2015
Tesla	TESLA	MODEL S	2016
Tesla	TESLA	MODEL S	2017
Tesla	TESLA	MODEL S	2018
Tesla	TESLA	MODEL S	2019
Tesla	TESLA	MODEL X	2016
Tesla	TESLA	MODEL X	2017
Tesla	TESLA	MODEL X	2018
Toyota	LEXUS	GX	2017
Toyota	LEXUS	IS 250	2014
Toyota	LEXUS	IS 250	2015

Toyota	LEXUS	IS 250C	2014
Toyota	LEXUS	IS 250C	2015
Toyota	LEXUS	IS 300	2016
Toyota	LEXUS	IS 300	2017
Toyota	LEXUS	IS 300	2018
Toyota	LEXUS	IS 350	2014
Toyota	LEXUS	IS 350	2015
Toyota	LEXUS	IS 350	2016
Toyota	LEXUS	IS 350	2017
Toyota	LEXUS	IS 350	2018
Toyota	LEXUS	IS 350C	2014
Toyota	LEXUS	IS 350C	2015
Toyota	LEXUS	IS 350C	2016
Toyota	LEXUS	IS 350C	2017
Toyota	LEXUS	IS 350C	2018
Toyota	LEXUS	IS200T	2016
Toyota	LEXUS	IS200T	2017
Toyota	LEXUS	RC 300	2016
Toyota	LEXUS	RC 300	2017
Toyota	LEXUS	RC 300	2018
Toyota	LEXUS	RC 350	2015
Toyota	LEXUS	RC 350	2016
Toyota	LEXUS	RC 350	2017
Toyota	LEXUS	RC 350	2018
Toyota	LEXUS	RC F	2015
Toyota	LEXUS	RC F	2016
Toyota	LEXUS	RC F	2017
Toyota	LEXUS	RC F	2018
Toyota	SCION	IM	2016
Toyota	TOYOTA	4RUNNER	2016
Toyota	TOYOTA	4RUNNER	2017
Toyota	TOYOTA	COROLLA	2014
Toyota	TOYOTA	COROLLA	2015
Toyota	TOYOTA	COROLLA	2016
Toyota	TOYOTA	COROLLA	2017
Toyota	TOYOTA	COROLLA	2018
Toyota	TOYOTA	COROLLA IM	2017
Toyota	TOYOTA	COROLLA IM	2018

ATTACHMENT B: This attachment shows a list of vehicle manufacturers that used desiccated PSAN based Takata frontal inflators for remedy repairs of the identified NHTSA recalls (approximately 5M vehicles and growing). Note that some manufacturers used non-Takata (non-PSAN) inflators to remedy some vehicles.

Manufacturer	NHTSA Recall ID	Recall Currently Active?	Module Position	Currently Installing Desiccated Takata Inflators?
BMW	16V071	Y	Driver	N
Daimler Vans	15V354	N	Passenger	N
Daimler Vans	16V379	N	Passenger	N
Daimler Vans	17V478	Y	Passenger	N
Daimler Vans	17V479	Y	Passenger	N
Chrysler	15V312	Y	Passenger	Y
FCA	16V081	Y	Driver	Y
FCA	16V352	Y	Passenger	Y
FCA	17V478	Y	Passenger	Y
FCA	18V021	Y	Passenger	Y
FCA	19V018	Y	Passenger	Y
GM	15V324	Y	Passenger	Y
GM	16V063	Y	Driver	Y
GM	20V011	Y	Passenger	Y
GM	21V050	Y	Passenger	N
GM	21V051	Y	Passenger	N
GM	21V052	Y	Passenger	N
GM	21V053	Y	Passenger	N
GM	21V054	Y	Passenger	N
Honda	14V-351	N	Driver	N
Honda	15V-153	N	Driver	N
Honda	15V-320	Y	Driver	N
Mazda	15V382	N	Driver	N
Mazda	16V354	N	Passenger	N
Mazda	17V011	N	Passenger	N
Mazda	18V017	N	Passenger	N
Mazda	18V716	N	Passenger	N
MBUSA	16V081	Y	Driver	N
Nissan	15V-226	Y	Passenger	N
Nissan	15V-287	Y	Passenger	N
Nissan	16V-349	Y	Passenger	N
Nissan	17V-028	Y	Passenger	N
Nissan	20V-008	Y	Passenger	N

Nissan	20V-747	Y	Passenger	N
Tesla	17V023	N	Passenger	N
Tesla	18V031	Y	Passenger	Y
Tesla	19V002	Y	Passenger	Y
Toyota	15V285	Y	Passenger	Y
Toyota	15V286	Y	Passenger	Y
Toyota	16V127	Y	Passenger	Y
Toyota	16V128	Y	Passenger	Y
Toyota	16V340	Y	Passenger	N
Toyota	17V006	Y	Passenger	N
Toyota	18V024	Y	Passenger	N
Toyota	19V005	Y	Passenger	N