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14 Attorneys for Plaintiffs

15 UNITED STATES DISTRICT COURT  
 16 CENTRAL DISTRICT OF CALIFORNIA

17 TOWNSEND VANCE and  
 18 ZACHARY HAINES, individually  
 19 and on behalf of all others similarly  
 situated,

20 Plaintiffs,

21 v.

22 MAZDA MOTOR OF AMERICA,  
 23 INC. D/B/A MAZDA NORTH  
 24 AMERICA 1 OPERATIONS,  
 25 MAZDA MOTOR  
 CORPORATION DENSO  
 CORPORATION and DENSO  
 26 INTERNATIONAL AMERICA,  
 27 INC,

28 Defendants.

Case No.

CLASS ACTION

PLAINTIFFS CLASS ACTION  
COMPLAINT

JURY TRIAL DEMANDED

1 Plaintiffs Townsend Vance and Zachary Haines (collectively, <sup>3</sup> 3 O D L Q W L I I  
 2 file this Consolidated Amended Class Action Complaint on behalf of themselves  
 3 and all others similarly situated against defendant Mazda Motor of America, Inc.  
 4 and Mazda Motor Corporation (collectively, 'Mazda' ' H Q V R & R U S R U D  
 5 Denso International America, Inc. (collectively, <sup>3</sup> ' H Q V ' R Based on personal  
 6 knowledge as to matters relating to themselves, and on information and belief  
 7 based on the investigation of counsel, including counsel's review of consumer  
 8 complaints available on the database of the National Highway Traffic Safety  
 9 \$ G P L Q L V W U D W L R Q <sup>3</sup> 1 + 7 6 \$ ' D Q G R W K H U S X E O L  
 10 other matters, Plaintiffs allege as follows:

11 I. NATURE OF THE ACTION

12 1. This class action lawsuit seeks redress for the misconduct of Denso,  
 13 a \$47.6 billion global company that claims to be a leading supplier of advanced  
 14 automotive technology, systems and components, and Mazda, an international  
 15 manufacturer of automobiles that claims to manufacture and sell highly safe  
 16 vehicles, that knowingly exposed the purchasers and lessees of at least hundreds  
 17 of thousands of Mazda vehicles, such as Plaintiffs and members of the proposed  
 18 F O D V V H V <sup>3</sup> & O D V V 0 H P E H U V ' W R D G D Q U E U R X V  
 19 pump. This defect causes Mazda vehicles to stall, the engines to shut down or  
 20 fail to start, and creates a substantial risk of injury and death for any person  
 21 operating or riding in a vehicle equipped with the defective fuel pump. Despite  
 22 being aware of this problem for years, Mazda and Denso failed to visit to  
 23 Plaintiffs until November 12, 2021 when Mazda announced a recall (Denso issued  
 24 a general recall of its fuel pumps in April 2020).

25 2. Denso is one of the largest suppliers of original equipment fuel pumps  
 26 to vehicle manufacturers, including to M & D \$ F F R U G L Q J W R ' H Q V R

28 1 0 D ] G D D Q G ' H Q V R D U H F R O O H F W L Y H O \ U H I H U H

1 are chosen as standard equipment by the world's most demanding OEMs,  
2 HVSHFLDOO\ IRU WKHLU SUHPLXP YHKLFOHV

3 3. On April 27, 2020, Denso issued a recall for defective low pressure  
4 fuel pumps it manufactured between September 1, 2017 and October 6, 2018. The  
5 number of potentially affected vehicles across manufacturers is 2,020,000.

6 4. The fuel pump in an automobile is critically important to the overall  
7 operation of a vehicle because it lifts gasoline from the fuel tank and delivers it to  
8 the engine where it is ignited in the combustion chamber and generates vehicle  
9 propulsion. A fuel pump is expected to last for the life of an automobile or a  
10 minimum of 200,000 miles

11 5. , Q LWV 3DUW 6DIHW\ \$April 27, 2020 Recall U W  
12 5HSR<sup>2</sup> filed with NHTSA, Denso admitted its low pressure fuel pumps contain  
13 a defective impeller that poses a risk to consumer safety:

14 An impeller in some low pressure fuel pumps may become deformed  
15 under certain conditions which could render the fuel pump  
16 inoperable.... If an impeller deforms to a point that creates sufficient  
17 interference with the fuel pump body, the fuel pump becomes  
18 inoperative. According to vehicle manufacturer's system evaluation,  
19 an inoperative fuel pump may result in the illumination of check  
20 engine light and/or master warning indicators, rough engine running,  
21 engine no start and/or vehicle stall while driving at low speed and, in  
22 rare instances, a vehicle stall could occur while driving at higher  
23 speeds, increasing the risk of a crash

24 6. Specifically, Denso stated its low pressure fuel pumps could become  
25 inoperable if <sup>3</sup>DQ LP SHOOHU LV PDQXIDFWXUHG ZLWK  
26 lower surface strength or is exposed to production solvent drying for a longer  
27 period of time, higher levels of surface cracking may occur which, when excessive

28 <sup>2</sup> Denso's April 27, 2020 Recall Report is attached hereto as Exhibit A.

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fuel absorption occurs, may  
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7. On June 11, 2020, Denso expanded its recall by submitting a second  
3 D U W 6 D I H W \ 5 H F D O O 5 H \$ June 11, 2020 Recall  
5 H S R<sup>4</sup> increasing the number of affected fuel pumps from 2,020,000 to  
2,156,057.

8. The Denso Recall Reports listed various manufactures that  
3 S X U F K D V H G W K L V G H I H F W L Y H Q R Q F M a z o L D Q W

9. Despite admitting responsibility for the Fuel Pump Defect and that  
the Defect poses a risk to consumer safety, Denso failed to take any corrective  
D F W L R Q L W V H O I D Q G V D L G 3 > W @ K H U H P H G \ S U R  
P D Q X I D F W X U H U V '

10. On November 17, 2020, nearly seven months after Denso's initial  
recall, Denso again expanded its recall, nearly doubling the months of production  
and, with that, the number of admittedly defective pressure fuel pumps with  
the Fuel Pump Defect. In this expansion, fuel pumps manufactured as early as  
June 26, 2017 and as late as June 28, 2019 were included in the recall, and  
1,517,721 additional pumps were admitted to be defective.

11. In its November 17, 2020 Recall Report, Denso also set forth the  
results of additional analysis it conducted concerning the Fuel Pump Defect,  
F R Q F O X G L Q J W K D W W K H G H Q V L W \ R I W K H U H V L G

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<sup>3</sup> Id.  
<sup>4</sup> Denso's June 11, 2020 Recall Report is attached hereto as Exhibit B.  
<sup>5</sup> Denso's April 27, 2020 Recall Report and June 11, 2020 Recall Report are  
F R O O H F W L Y H O \ U H V R U 5 H Q F D H G O D V ' W K H 3 ' H Q  
<sup>6</sup> See Exhibit A at 3.  
<sup>7</sup> Id. at 2.  
<sup>8</sup> Denso's November 17, 2020 Recall Report is attached hereto as Exhibit C.

1 closely correlate with the occurrence of field cases than overall  
2 VXUIDFH VWUHQJWK >RI LPSHOOHUV@ WKDQ SU

3 Additional analysis was conducted regarding the density of impellers  
4 manufactured during various periods. Because the impeller material  
5 contains three elements (resin, glass fiber, and calcium carbonate),  
6 but only one element (resin) is susceptible to swelling, only resin  
7 density was examined for this analysis. Resin density was found to  
8 more closely correlate with the occurrence of field cases than overall  
9 impeller density. The resin density findings indicated additional  
10 material lots which could contribute to the occurrence of the  
11 condition in combination with other factors. In addition, the surface  
12 strength of impellers manufactured during various periods was  
13 examined with additional variables considered. This analysis  
14 demonstrated that a lower minimum surface strength than previously  
15 estimated could be possible. The new resin density and surface  
16 strength information can be correlated by vehicle manufacturers with  
17 warranty data, production timing data, vehicle specific variables, and  
18 other information to determine which vehicles, if any, may be  
19 susceptible to the condition.

12. On July 17, 2020, Mazda filed a Part 579.12 Foreign Recall  
16 Campaign Report with NHTSA, alerting NHTSA of recalls in China, Japan,  
17 Thailand, Malaysia, Vietnam, and Mexico for vehicles equipped with Denso

18 )XHO 3XPSV WKDW VXIIHU IURP WKH UJHILOQ3 XFB D  
19 13. Mazda's Foreign Recall ID WHV WKDW 3IXHO SXPS  
20 inside the fuel delivery module (FDM) may experience surface cracks due to low  
21 part density during the manufacturing process and/or length of time between pump  
22 production and vehicle installation. As a result, the shell may deform, causing

23 LQWHUIHUHQFH ZLWK VXUURXQGLQJ SXPS FRPS

26 <sup>9</sup> Id.

27 <sup>10</sup> See Exhibit D.

28 <sup>11</sup> Id.

1 14. Mazda<sup>12</sup> )RUHLJQ 5HFDOO DOVR LGHQWLI  
2 9HKLFOHV LQ W<sup>12</sup>2019 Mazda CX3, CX-5, CX-9, Mazda2, Mazda3,  
3 Mazda6, MX5, and Toyota Yaris vehicles<sup>12</sup>.

4 15. Despite using the same Fuel Pump, Mazda failed to recall the Class  
5 9HKLFOHV <sup>3</sup>GXH WR GLIIHUHQFHV LQ 8 6 ORJLV  
6 DQG RWKHU<sup>13</sup> IDFWRUV ‘

7 16. On November 12, 2021, over one year after the initial Denso Recall  
8 and Mazda’s Foreign Recall, Mazda finally issued its own U.S. recall of its  
9 vehicles equipped with the defective low-pressure Denso fuel pumps. Mazda filed  
10 LWV RZQ 3DUW 6DIN<sup>14</sup> Mazda’s 5HFDOO O<sup>15</sup>W<sup>16</sup>ISURVAV<sup>3</sup>  
11 confirming that at least 21,038 of its vehicles are equipped with the defective  
12 Denso fuel pumps. Mazda’s Recall covers Mazda’s 2019 CX3, 2018-2019 CX-  
13 5, 2018-2019 CX9, 2019-2020 Mazda2, 2018 Mazda3, 2018 Mazda6, and 2018  
14 2019 MX-5 vehicles manufactured at various times between April 2018 and  
15 January 2020. Mazda<sup>17</sup> 5HFDOOHG 9HKLFOHV ‘

16 17. Mazda’s Recall Report confirms the existence and seriousness of the  
17 Fuel Pump Defect.<sup>3</sup> 7KH LPSHOOHU LQ VRPH ORZ SUHV<sup>18</sup>V  
18 deformed under certain conditions, which could cause fuel pump failure. . . . Fuel  
19 pump failure may result in engine no start and/or vehicle stall while driving at low  
20 speed and, in rare instances, a vehicle stall could occur while driving at higher  
21 speeds, increa<sup>19</sup> LQJ WKH UL<sup>16</sup>VN RID FUDVK ‘

22 18. Mazda claims to have accurately identified the total population of  
23 vehicles equipped with the defective fuel pumps

24  
25 \_\_\_\_\_  
26 <sup>12</sup> Id.  
27 <sup>13</sup> Id.  
28 <sup>14</sup> Mazda’s November 12, 2021 Recall Report is attached hereto as Exhibit E.  
<sup>15</sup> Id.

1 19. However, Mazda's Recall fails to include other 2013-2020 Mazda  
2 manufactured vehicles equipped with the same defective Denso made low  
3 pressure fuel pump with a part number suffix 13350 3 & O D V V 9 as the EO H V  
4 in the Recall

5 20. While Mazda's Recall includes only certain model year 2013-2020  
6 vehicles that suffer from the Fuel Pump Defect, a recall by another manufa  
7 over the same Fuel Pump Defect covers model year-2013 vehicles equipped  
8 with Denso's same defective fuel pumps. Moreover, Mazda customers have been  
9 submitting Fuel Pump Defect complaints to NHTSA since 2013.

10 21. Mazda admits it knew about the Fuel Pump Defect as early as March  
11 2019.<sup>16</sup> Nevertheless, Mazda failed to make public the existence of the Fuel Pump  
12 Defect until November 12, 2021, over two years later. Moreover, Mazda failed to  
13 notify consumers directly or instruct them to stop driving their dangerous vehicles  
14 until they are repaired. Nor did Mazda offer a timely remedy.

15 22. Despite admitting in its recall that the Fuel Pump Defect could occur  
16 Z K L O H G U L Y L Q J 3 L Q F U H D e y e g o u s l y M a z d a d i d n o t d i r e c t l y D F  
17 the owners and lessees of the Recalled Vehicles to immediately cease driving their  
18 cars. Mazda also did not offer owners and lessees loaner cars they could drive until  
19 an adequate remedy could be implemented.

20 23. Moreover, though Mazda has made public its repair instructions  
21 to dealerships, Mazda's Recall is identical to those of three other manufacturers  
22 (Toyota, Honda, and Subaru) and each have implemented the same repair provided  
23 by Denso. But Mazda's Recall repairs are inadequate on multiple levels.

24 24. Rather than following the industry standard and replacing the entire  
25 fuel pump module, Mazda's Recall directs technicians to replace only the fuel  
26 pump motor, which is part of the module. This is an extremely delicate and  
27

28 <sup>16</sup> Exhibit F.

1 difficult procedure with a high risk of damaging the entire fuel pump module,  
 2 which can result in gas leaking out of the fuel tank, creating hazardous conditions  
 3 and exacerbating the Fuel Pump Defect instead of correcting it. As set forth  
 4 in Section IV, there are numerous reports from individuals who received the same  
 5 repair from Toyota, Honda, and Subaru that detail the dangerous consequences of  
 6 the recall repair.

7 25. Thus, Mazda's Recall failed to adequately repair the Fuel Pump  
 8 Defect, and often cause additional damage to the fuel pump module and the  
 9 Vehicle.

10 26. As a result, at least hundreds of thousands of Mazda's customers in  
 11 the United States are driving vehicles that pose a serious safety risk.

12 27. The Fuel Pump Defect in the Class Vehicles exposes occupants and  
 13 others to extreme danger, even death. A vehicle that stalls or suffers engine  
 14 shutdown is at heightened risk for collision. A vehicle that stalls or suffers engine  
 15 shutdown causes drivers to react to remove themselves from danger, typically by  
 16 exiting the road. Drivers stranded on the side of the road experience a heightened  
 17 risk of danger, whether it is from other vehicles, remoteness or weather elements.

18 28. Fuel pump failure can also prevent the driver from accelerating at the  
 19 necessary and anticipated pace. Distorted acceleration ability creates  
 20 unexpected hazards, startling drivers of the Class Vehicles and other drivers in  
 21 their proximity. Finally, once a Class Vehicle fuel pump fails, the vehicle becomes  
 22 totally inoperable and will not start.

23 29. Despite Mazda's indisputable knowledge of the danger posed by  
 24 defective fuel pumps in its vehicles, Mazda's Recall is woefully inadequate  
 25 because it (1) failed to identify and include the full scope of Mazda-manufactured  
 26 vehicles equipped with defective fuel pumps; (2) failed to offer a timely or  
 27 effective repair; (3) failed to warn consumers about the serious safety hazards  
 28 posed by the Fuel Pump Defect and recommend customers stop driving their

1 vehicles until they are repaired; and (4) ~~edito~~ offer free loaner vehicles until  
2 Plaintiffs ~~¶~~ and Class Members ~~§~~ vehicles are repaired.

3 30. As in Section IV, throughout the relevant period, Mazda ~~§~~ marketing  
4 of the Class Vehicles was and is replete with assurances about their safety and  
5 dependability. A vehicle that can suddenly ~~shut~~ and lose power during normal  
6 operating conditions is inherently unsafe and not dependable, ~~and~~ Mazda ~~§~~  
7 marketing of the Class Vehicles untrue and materially misleading. Plaintiffs and  
8 other Class Members have been damaged as a result.

9 31. Despite marketing and selling the Class Vehicles as safe and  
10 dependable, ~~as~~ alleged above, Mazda ~~has~~ long known of the Fuel Pump Defect. It  
11 amassed years of research, data gathering, and hundreds ~~of~~ thousands ~~of~~  
12 Fuel Pump Defect warranty claims. Moreover, under the TREAD Act, 49 U.S.C.  
13 § 30118, Mazda is duty-bound to, and does, monitor complaints from consumers  
14 that are posted on NHTSA ~~§~~ website. As set forth in Section IV below, there were  
15 consumer complaints on NHTSA ~~§~~ website about the Fuel Pump Defect in  
16 Mazda ~~§~~ vehicles that predate Mazda ~~§~~ 2021 Recall by over eight years (submitted  
17 in 2013).

18 32. Denso is equally culpable because it designed, engineered, tested,  
19 validated, manufactured, and placed into the stream of commerce defective fuel  
20 pumps which it knew would be installed in the Class Vehicles. As described in  
21 Section IV below, Denso indisputably had exclusive knowledge of the Fuel Pump  
22 Defect well before October 2016 when Denso filed a patent application seeking  
23 to improve the durability and absorption qualities of the defective fuel pump  
24 impeller. However, at no time did Denso disclose to others what it knew ~~with~~ about  
25 Fuel Pump Defect nor was that information reasonably available to Plaintiffs and  
26 the public. Denso ~~§~~ knowing and intentional failure to disclose the Fuel Pump  
27 Defect was a direct and proximate cause of harm to Plaintiffs and Class Members.

28

1           33. With or without a viable remedy for the Fuel Pump Defect, Mazda's  
 2 Recalls have decreased the intrinsic and resale value of the Class Vehicles.  
 3 Plaintiffs and other Class Members have been damaged as a result. Additionally,  
 4 Class Members must still honor their lease and loan payments (without proration),  
 5 even while their vehicles are inoperable and devalued.

6           34. Plaintiffs bring this lawsuit on behalf of themselves and all others  
 7 similarly situated who own or lease a Class Vehicle equipped with a defective  
 8 Denso fuel pump, and assert claims for breach of express warranty, breach of  
 9 implied warranty, strict liability, negligent undertaking, and fraudulent omission.

## 10 II. JURISDICTION AND VENUE

11           35. Subject matter jurisdiction is proper in this Court pursuant to the  
 12 Class Action Fairness Act, 28 U.S.C. § 1332(a) and (d), because Plaintiffs and  
 13 Class Members are citizens of a state different than Defendants' states, and  
 14 the aggregate amount in controversy exceeds \$5,000,000, exclusive of interest and  
 15 costs.

16           36. Subject matter jurisdiction is also proper in this Court pursuant to 28  
 17 U.S.C. § 1331 because Plaintiffs' Magnuson-Moss Warranty Act claim arises  
 18 under federal law, and this Court has supplemental subject matter jurisdiction over  
 19 Plaintiffs' state law claims under 28 U.S.C. § 1367.

20           37. Venue is proper in this Court pursuant to 28 U.S.C. § 1391 because a  
 21 substantial portion of actions giving rise to these claims occurred in this District,  
 22 Mazda and Denso have caused harm to Plaintiffs in this District, Mazda and  
 23 Denso are residents of this District under 28 U.S.C. § 1391(c)(2) because they are  
 24 subject to personal jurisdiction in this District. Venue is also proper in this District  
 25 pursuant to 18 U.S.C. § 1965.

## 26 III. THE PARTIES

27 Plaintiffs

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1 38. Plaintiff Townsend Vance is a citizen of Texas and resides in  
2 Houston, Texas

3 39. Plaintiff Vance owns a 2018 Mazda GX which she purchased new  
4 from Med Center Mazda in Phenix, Alabama on August 31, 2018.

5 40. Prior to purchasing her Mazda, Plaintiff Vance reviewed Mazda's  
6 promotional materials touting its safety and reliability, such as, Mazda television  
7 advertisements, the Monroney sticker, and sales brochures, and interacted with at  
8 least one sales representative without Mazda disclosing the Fuel Pump Defect.

9 41. Through her exposure and interaction with Mazda, Plaintiff Vance  
10 was aware of Mazda's uniform and pervasive marketing message that its vehicles  
11 are safe and dependable, which was material to her decision to purchase her Class  
12 Vehicle. When she purchased the vehicle, she believed, based on Mazda's  
13 marketing message, that she would be in a safe and dependable vehicle, one that  
14 is safer than a vehicle that is not marketed as safe and dependable. At no point  
15 before Plaintiff Vance purchased her vehicle did Mazda disclose to her that her  
16 vehicle was not safe or dependable, or that it was equipped with a defective Denso  
17 fuel pump

18 42. Plaintiff Vance's Mazda suffers from the Fuel Pump Defect because  
19 the impeller in her vehicle started absorbing fuel and deforming the moment it was  
20 exposed to gasoline.

21 43. Plaintiff Vance's Mazda suffers from the Fuel Pump Defect and  
22 during at least six different usages experienced hesitation and interrupted  
23 acceleration and near engine stall out

24 44. The Fuel Pump Defect creates a dangerous condition that gives rise  
25 to a clear, substantial, and unreasonable danger of death or personal injury to  
26 Plaintiff Vance, other occupants in her Class Vehicle, and others on the road. At  
27 no time did Mazda inform Plaintiff Vance of the seriousness of the Fuel Pump  
28

1 Defect or recommend that she discontinue use of her vehicle until there is a repair  
2 or a replacement fuel pump.

3 45. Plaintiff Vance purchased her Class Vehicle with the Fuel Pump  
4 Defect as part of a transaction in which Mazda did not disclose material facts  
5 related to the automobile's essential purposes as safe and dependable transportation.  
6 Plaintiff Vance did not receive the benefit of her bargain. She purchased a vehicle  
7 that is of a lesser standard, grade, and quality than represented, and she did not  
8 receive a vehicle that met ordinary and reasonable consumer expectations  
9 regarding safe and reliable operation. The Fuel Pump Defect has significantly  
10 diminished the value of Plaintiff Vance's Class Vehicle.

11 46. Had Mazda disclosed the Fuel Pump Defect, Plaintiff Vance would  
12 not have purchased her Class Vehicle, or would have paid less to do so.

13 47. Plaintiff Vance would purchase a Mazda from Mazda in the future if  
14 Defendants' representations about the vehicle, including its safety and durability,  
15 were accurate.

16 48. Plaintiff Zachary Haines is a citizen of California and resides in Los  
17 Angeles, California.

18 49. Plaintiff Haines owns a 2018 Mazda 3 Touring which he purchased  
19 used from Russell Westbrook Hyundai of Garden Grove, California on June 15,  
20 2019.

21 50. Prior to purchasing his Mazda, Plaintiff Haines reviewed Mazda  
22 promotional materials touting its safety and reliability, such as, Mazda television  
23 advertisements, the Monroney sticker, and sales brochures without Mazda  
24 disclosing the Fuel Pump Defect.

25 51. Through his exposure and interaction with Mazda, Plaintiff Haines  
26 was aware of Mazda's uniform and pervasive marketing message that its vehicles  
27 are safe and dependable, which was material to his decision to purchase his Class  
28 Vehicle. When he purchased the vehicle, he believed, based on Mazda's marketing

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message, that he would be in a safe and dependable vehicle, one that is safer than a vehicle that is not marketed as safe and dependable. At no point before Plaintiff Haines purchased his vehicle did Mazda disclose to him that his vehicle was not safe or dependable, or that it was equipped with a defective Denso fuel pump.

52. Plaintiff Haines/Mazda suffers from the Fuel Pump Defect because the impeller in his vehicle started absorbing fuel and deforming the moment it was exposed to gasoline.

53. Plaintiff Haines/Mazda suffers from the Fuel Pump Defect and on numerous occasions has experienced hesitated acceleration and difficulty with starting the vehicle.

54. The Fuel Pump Defect creates a dangerous condition that gives rise to a clear, substantial, and unreasonable danger of death or personal injury to Plaintiff Haines, other occupants in his Class Vehicle, and others on the road. At no time did Mazda inform Plaintiff Haines of the seriousness of the Fuel Pump Defect or recommend that he discontinue use of his vehicle until there is a repair or a replacement fuel pump.

55. Plaintiff Haines purchased his Class Vehicle with the Fuel Pump Defect as part of a transaction in which Mazda did not disclose material facts related to the automobile's essential purposes as safe and dependable transportation. Plaintiff Haines did not receive the benefit of his bargain. He purchased a vehicle that is of a lesser standard, grade, and quality than represented and did not receive a vehicle that met ordinary and reasonable consumer expectations regarding safe and reliable operation. The Fuel Pump Defect has significantly diminished the value of Plaintiff Haines' Class Vehicle.

56. Had Mazda disclosed the Fuel Pump Defect, Plaintiff Haines would not have purchased his Class Vehicle, or would have paid less to do so.

1 57. Plaintiff Haines would purchase a Mazda in the future if Defendants  
2 representations about the vehicle, including its safety and durability, were  
3 accurate.

4 Defendants

5 58. ' H I H Q G D Q W 0 D ] G D 0 R W R U & R U S R U D W L R  
6 corporation with its principal place of business in Fuchu, Aki District, Hiroshima  
7 Prefecture, Japan, and the parent company of Mazda Motor of America, Inc.  
8 3 0 0 \$ ' 0 0 & s u b s t a n t i a l control over MMA, and MMA acts for the benefit  
9 of MMC.

10 59. At all relevant times, MMC acted in the United States by itself and  
11 through MMA and its various entities including in this District. MMC, itself and  
12 through MMA and its various entities, is the business of designing, engineering,  
13 testing, validating, manufacturing, marketing, and selling Mazda branded vehicles  
14 throughout the United States, including within this District.

15 60. Defendant MMA is incorporated in California with its principal place  
16 of business in Irvine, California.

17 61. MMA is a holding company of sales, manufacturing, engineering,  
18 and research and development strategies of MMC in the United States and is  
19 wholly owned by MMC. MMA is in the business of designing, engineering,  
20 testing, validating, manufacturing, distributing, marketing, selling, and servicing  
21 Mazda branded vehicles in the United States, including within this District.

22 62. MMA, through its various entities, designs, manufactures, markets,  
23 distributes and sells Mazda automobiles through its hundreds of dealerships in the  
24 United States, including within this District.

25 63. ' H I H Q G D Q W ' H Q V R & R U S R U D W L R Q 3 ' & '  
26 located at 41, Showacho, Karlya, Alchi 4489661, Japan. DC is the parent  
27 company of Denso International Q D O \$ P H U L F D , Q F 3 ' , \$ 0 '  
28

1 64. DIAM is a wholly owned subsidiary of DC. DIAM acts for the benefit  
2 and at the discretion of DC.

3 65. DC, itself, and through DIAM and its various subsidiaries and agents,  
4 designed, engineered, tested, and validated the pressure fuel pump that is  
5 equipped in Mazda vehicles sold/leased in the United States, including in  
6 Plaintiffs' states.

7 66. DIAM is incorporated in Delaware and has its principal place of  
8 business at 2477 Denso Drive Southfield, Michigan 48033. DIAM is a holding  
9 company of sales, manufacturing, engineering, and research and development  
10 subsidiaries of Denso Corporation located in the United States. DIAM is in the  
11 business of designing, engineering, testing, validating, manufacturing, selling,  
12 among other things, fuel pumps throughout the United States, including within this  
13 District.

14 67. DC is a wholly owned subsidiary of DENSO CORPORATION, an American regional headquarters and parent  
15 company for its North American operations, including design and production  
16 engineering, technical support, sales and service.

17 68. DIAM, through its various entities and on behalf of DC, designed,  
18 engineered, tested, and validated the pressure fuel pump that is equipped in  
19 Mazda and Acura Vehicles across the United States, including in Plaintiffs' states.

20 IV. FACTUAL ALLEGATIONS

21 69. Mazda manufactures, markets, and sells vehicles all over the United  
22 States, including California.

23 70. Mazda has branded itself as the maker of safe and dependable  
24 vehicles and has spent millions of dollars on extensive marketing and advertising  
25 campaigns to cement the association of safety and reliability with its Mazda brand,  
26 including the Class Vehicles. Through its investment marketing, Mazda sought to  
27 portray itself as the safest vehicle brand on the market.

28

1 71. Denso is the world's second largest Tier 1 Original Equipment  
2 0 D Q X I D F W X U H U 3 2 ( 0 ' S U R G X F L Q J S D U W V D Q C  
3 manufacturers. According to its website, Denso records nearly \$10.9 billion in  
4 annual sales in the United States, including in California.

5 72. According to Denso itself, when designing, engineering, testing, and  
6 P D Q X I D F W X U L Q J L W V S U R G X F W V ' H Q V R D L P V W  
7 V D I H U P R U H F R P I R U W D E O H D Q G F R Q Y H Q L H Q W I  
8 fails to meet Denso's published standard.

9 73. Defendants collectively designed, engineered, tested, validated,  
10 manufactured and placed in the stream of commerce Class Vehicles equipped with  
11 defective fuel pumps, thereby subjecting Plaintiffs and Class Members to an  
12 unreasonable risk of death or injury, and damaging Plaintiffs and Class Members  
13 as further detailed below. Nonetheless, Mazda marketed and sold the Class  
14 Vehicles, and has, at all times, uniformly branded the Class Vehicles as safe and  
15 dependable.

16 A. THE OPERATION OF CLASS VEHICLES' LOW-PRESSURE  
17 FUEL PUMP

18 74. The Class Vehicles are equipped with Denso made low pressure fuel  
19 S X P S V W K H 3 ) X H O 3 X P S '

20 75. All Class Vehicles are equipped with the same or substantially similar  
21 defective Fuel Pumps.

22 76. Fuel Pumps serve a critical role in the function of combustion  
23 engines. In simple terms, the fuel pump lifts gasoline out of the fuel tank and sends  
24 it to the engine where it is injected into the combustion chamber and ignited,  
25 driving the pistons and creating propulsion. Denso explains the role of the electric  
26 I X H O S X P S D V 3 G H O L Y H U > L Q J @ I X H O I U R P W K H

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1 depending on the vehicle applications & specific requirements. The fuel is  
 2 W U D Q V S R U W H G W R I X H O L Q M H F W R U V Z K L F K V S  
 3 77. The Fuel Pump assembly is mounted inside of the fuel tank. The Fuel  
 4 Pump assembly consists of a fuel intake strainer at one end and a fuel output line  
 5 at the other. At the heart of the Fuel Pump assembly is an electric motor with a  
 6 plastic impeller attached to a rotating shaft. The impeller is a plastic disk that  
 7 rotates and draws in fuel and pushes it up through the pump.<sup>18</sup> The impeller is  
 8 equipped with vanes or blades that, when spun, creates negative pressure  
 9 which lifts the gasoline out of the fuel tank and sends it to the engine. Protruding  
 10 from the side of the Fuel Pump assembly is a fuel level float and level sender.  
 11 Figure One illustrates the parts of the Fuel Pump assembly. Figure Two illustrates  
 12 the internal components of the Denso Fuel Pump electric motor.

Figure 1 Fuel Pump Assembly Diagram<sup>19</sup>

17 <sup>17</sup> [https://www.denso.com.au/media/1462778/2020\\_dems\\_web](https://www.denso.com.au/media/1462778/2020_dems_web) (last visited  
 26 November 16, 2021)

27 <sup>18</sup> <https://www.denso.com.co.uk/products/automotive/aftermarket/emissions/lambda-sensor/fuelpumps/howtheywork/> (last visited November 16, 2021).

28 <sup>19</sup> [http://www.agcoauto.com/content/news/p2\\_articleid/](http://www.agcoauto.com/content/news/p2_articleid/) (last visited

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Figure 2 Electric Motor Internal Components<sup>20</sup>

78. As the electric motor rotates, the impeller spins generating negative pressure. The negative pressure pulls fuel into the pump housing where it passes through the electric motor assembly and exits through the output, into the fuel line and forward to the fuel filter. After exiting the fuel filter, the fuel flow is accelerated via a high pressure pump which delivers pressurized fuel to injectors mounted in the engine. Denso describes the operation of its in-line fuel pump as follows: "As the pump rotates, the blade moves around the impeller, creating a swirling motion inside the pump to deliver fuel. The fuel then passes around the motor, forcing the check valve upwards to supply fuel to the injectors." Figures Three and Four, below, illustrates this sequence.

November 16, 2021).

<sup>20</sup> [https://aftermarket.denso.com.sg/product\\_info/?cat\\_id=194](https://aftermarket.denso.com.sg/product_info/?cat_id=194) (last visited November 16, 2021)

<sup>21</sup> <https://www.denso.com.au/media/966284/dems180001rmp.pdf> (last visited November 16, 2021)

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Figure 3 Fuel Pump Sequence<sup>22</sup>

Figure 4 Impeller Rotation Operation<sup>23</sup>

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<sup>22</sup> <https://www.autoplusdubai.net/blog/fuel-pumps-common-causes-and-how-to-identify-it/> (last visited November 16, 2021)

<sup>23</sup> [https://aftermarket.denso.com.sg/product\\_info/?cat\\_id=1191](https://aftermarket.denso.com.sg/product_info/?cat_id=1191) (last visited November 16, 2021)

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79. At all times, by design, the Fuel Pump assembly and all its components are exposed to gasoline within the tank. Fuel pumps are designed to survive the harsh environment for at least 200,000 miles.<sup>24</sup> Denso claims its fuel

S X P S V <sup>3</sup> R I I H U P R U H W K D G <sup>25</sup> W U L S O H W K H O L I H W L F

Figure 5

B. THE CLASS VEHICLES SUFFER FROM A FUNDAMENTALLY DEFECTIVE FUEL PUMP

80. As described herein, the Class Vehicle Fuel Pumps suffer from a fundamental defect causing them to prematurely fail. Engines operate within a narrow and precisely calibrated air fuel mixture range, which means they are very sensitive to fuel pressure and delivery requirements. Partial, intermittent or

<sup>24</sup> <https://www.autoblog.com/2015/11/24/how-long-does-a-fuel-pump-usually-last/> (last visited November 16, 2021).

<sup>25</sup> <https://densoautoparts.com/fuel/pumps.aspx> (last visited November 16, 2021).

1 complete fuel pump failure disturbs the calculated precision and results in engine  
2 stalling or hesitancy.

3 81. Based on Mazda's and Denso's own admissions, and the findings of  
4 Plaintiffs' Expert to date, the failure results from a defectively designed plastic  
5 impeller in the Fuel Pump.

6 82. A manufacturer's goal in designing and manufacturing a fuel pump  
7 must be to design and create one that operates safely and dependably for the life  
8 of the vehicle. According to the analysis of Plaintiffs' Expert to date, and by  
9 Mazda's and Denso's admissions, the Fuel Pump assembly in the Class Vehicles  
10 was poorly designed and/or manufactured.

11 83. As Defendants admit, the subject Fuel Pumps contain an impeller that  
12 could deform due to excessive fuel absorption.<sup>26</sup> The Denso Fuel Pump impeller  
13 material is unsuitable for its environment due to its excessive fuel absorption  
14 propensity, which causes swelling and premature and unexpected Fuel Pump  
15 failure.<sup>27</sup>

16 84. Plaintiffs' Expert's research to date indicates that the Denso impeller  
17 uses an unsuitable material for its intended use. The impeller material has an  
18 inferior long-term dimensional instability (it deforms, swells and changes shape),  
19 resulting in premature and unexpected failure due to component distortion and the  
20 resultant swelling induced friction.

21 85. The Denso impeller material has inadequate heat resistance,  
22 potentially resulting in dimensional distortion and loss of structural integrity when  
23 exposed to high temperatures or repeated temperature cycling (i.e., intended  
24 and repeated temperature changes of operation).

27 <sup>26</sup> Compare Exhibits AB with Exhibits GG.

28 <sup>27</sup> See Exhibit A at 1-2.

1 86. The impeller's material is also highly porous, which may lead not  
2 only to absorption of gasoline, but also fuel contaminants may become lodged in  
3 the impeller's pores, leading to Fuel Pump failure.

4 87. Plastics absorb liquids, typically. However, the degree of absorption  
5 varies depending on the type of plastic and its environmental conditions. When  
6 plastics absorb liquid, such as gasoline, the plastic pieces' dimensions  
7 change. Therefore, manufacturers like Denso and Mazda must adequately design  
8 and validate plastic materials exposed to liquids to ensure that they remain  
9 dimensionally stable.<sup>28</sup> Here, Mazda and Denso clearly failed to do that with  
10 respect to the Fuel Pumps in the Class Vehicles.

11 88. Moreover, according to Plaintiff's Expert's research to date, Denso  
12 further hypothesizes that lower surface strength of the impeller contributes to the  
13 Fuel Pump Defect is an obvious and expected correlation rather than a separate  
14 issue. Notably, it is typical and expected for a low density material to exhibit lower  
15 surface strength when compared to a higher density material. It is also expected  
16 that low density materials would have higher porosity and absorption propensity  
17 compared to higher density materials.

18 89. Mazda and Denso admitted the impeller was poorly designed to the  
19 point that it cannot remain dimensionally stable under its intended conditions.  
20 Specifically, the Mazda Recall admitted that<sup>29</sup> > I @ X H O S X P S I D L O X U H  
21 engine no start and/or idle stall while driving at low speed and, in rare  
22 instances, a vehicle stall could occur while driving at high speeds, increasing the  
23 U L V N R I D M F R E D V D Denso admitted in the Denso Recalls that the impeller  
24 <sup>30</sup> P D \ E H F R P H G H I R U P F U E P u m p O r a f a d X M e t h o d W i k i p e d i a .

25  
26 <sup>28</sup> [https://www.ensingerplastics.com/en/shapes/plasticmaterial  
selection/dimensionallystable](https://www.ensingerplastics.com/en/shapes/plasticmaterialselection/dimensionallystable) (last visited November 16, 2021).

27 <sup>29</sup> Exhibit E.

28 <sup>30</sup> Exhibit A.

1 90. The Fuel Pump Defect manifests from the moment the Fuel Pump is  
2 installed in the fuel tank and submerged in gasoline. Once exposed to gasoline, the  
3 impeller begins to absorb fuel, swell, and deform.

4 91. The Fuel Pump and/or the Fuel Pump impeller was not designed  
5 and/or manufactured with the necessary robustness to operate safely under normal  
6 operating conditions.

7 92. At the time the Fuel Pumps were designed, engineered, tested,  
8 validated, manufactured, and placed in the stream of commerce by Defendants,  
9 Defendants were aware of, and had access to, reasonable alternative designs. Such  
10 designs would mitigate or eliminate the Fuel Pump Defect.

11 93. For example, Defendants could have mitigated or eliminated the Fuel  
12 Pump Defect by using different designs and/or materials where:

- 13 a. The impeller was not fuel permeable under intended and  
14 foreseeable purposes;
- 15 b. The impeller would not deform when exposed to  
16 operating temperatures under intended and foreseeable  
17 purposes;
- 18 c. The impeller would not prematurely age under intended  
19 and foreseeable purposes;
- 20 d. The impeller would not lose its dimensional stability  
21 under intended and foreseeable purposes; and/or
- 22 e. The impeller would not contact the fuel pump body  
23 under intended and foreseeable purposes; and/or
- 24 f. The Fuel Pump would not overheat under intended and  
25 foreseeable purposes.

26 94. Nevertheless, Defendants designed, engineered, tested, validated,  
27 manufactured, and placed in the stream of commerce Class Vehicles equipped with  
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the defective Fuel Pumps that cause an unreasonable risk of injury or death to the Plaintiff, Class Members, and others.

C. THE FUEL PUMP DEFECT REDUCES ENGINE POWER, CAUSES VEHICLE STALLING, AND CAN LEAVE THE CLASS VEHICLES COMPLETELY INOPERABLE COMPROMISING CONSUMER SAFETY

95. The Fuel Pump Defect in the Class Vehicles exposes occupants and others to extreme danger, even death. In Mazda and Denso tacitly admitted as much in their respective recalls, stating that the Fuel Pump Defect can

<sup>31</sup> L Q F U H D V > H @ W K H U L V N R I D F U D V K

96. The Fuel Pump is an integral component of safe vehicle operation. But as described herein, the Class Vehicles suffer from a fundamental design flaw that causes the Fuel Pump to prematurely fail. Mazda admitted in its recall, the deformed impeller comes in contact with the Fuel Pump body, creating excess running resistance. U H V X O W L Q J L Q <sup>32</sup> H Q J L Q He said and W D U V <sup>33</sup> L Q F U H D V L Q J W K H <sup>32</sup> In the Denso Recall, Denso admitted the deformed impeller contacts the Fuel Pump body, creating excess running resistance and causing reduced engine performance or complete engine failure:

If an impeller deforms to a point that creates sufficient interference with the fuel pump body, the fuel pump becomes inoperative. According to vehicle manufacturer system evaluation, an inoperative fuel pump may result in the illumination of the check engine light and/or master warning indicators, rough engine running, engine no start and/or vehicle stall while driving at low speed and, in rare instances, a vehicle stall could occur while driving at higher speeds, increasing the risk of a crash.<sup>33</sup>

<sup>31</sup> Compare Exhibits AB with Exhibit E.  
<sup>32</sup> Exhibit E.  
<sup>33</sup> See Exhibits A and B.

1 97. Engines necessarily require steady gasoline supply to function  
 2 properly. The Fuel Pump's primary purpose is to transfer gasoline from the tank  
 3 to the engine. But when the Fuel Pump fails, gasoline is not supplied to the engine,  
 4 causing reduced engine power, stalling, and engine shutdown.

5 98. Compounding the problem, Fuel Pump Defect occurs spontaneously  
 6 with no advance warning to the consumer, thereby creating an extremely  
 7 dangerous condition for drivers, including those on the road who may be left  
 8 helpless and unable to take action to get out of the way of oncoming traffic or reach  
 9 safety.

10 99. Class Members' complaints set forth below exemplify the real  
 11 dangers caused by the Fuel Pump Defect.

12 100. Vehicle manufacturers like Mazda monitor NHTSA and other  
 13 databases for consumer complaints as part of their ongoing obligation to uncover  
 14 and report potential safety-related defects. Accordingly, Mazda knew, or should  
 15 have known, of the many complaints lodged with NHTSA and elsewhere about  
 16 the specific safety hazard that is the subject of the Recalls.

17 101. By way of example, the consumer complaints set forth below  
 18 demonstrate the seriousness of the Fuel Pump Defect and further show that  
 19 Mazda knew or should have known of them as early as 2017, or was reckless in not  
 20 knowing of them. These consumer complaints represent a small fraction of the  
 21 hundreds of similar complaints submitted to NHTSA by owners and lessees of the  
 22 Class Vehicles regarding the Fuel Pump Defect.

23 102. On August 21, 2017, the owner of a 2015 Mazda filed the following  
 24 complaint with NHTSA:

25 HOT WEATHER ACCELERATION AND BLIND SPOT  
 26 MONITORING SYSTEM (BSM) ISSUE: IN EXTREMELY HOT  
 27 WEATHER BSM OFF LIGHT TURNS ON REPEATEDLY  
 28 WHILE THE VEHICLE IS IN MOTION OR STARTING FROM  
 COMPLETE STOP AT THE SAME TIME THE INFOTAINMENT  
 SYSTEM DISPLAY FLICKERS IN SYNC WITH THE BSM OFF

1 LIGHT APPEARANCE. WHEN THIS OCCURS THERE IS A  
 2 CLICKING SOUND COMING FROM THE FRONT OF THE  
 3 CAR/WHERE THE ENGINE IS LOCATED. THE SOUND IS  
 4 ACCOMPANIED BY TEMPORARY LOSS OF ACCELERATION  
 5 WHEN IN MOTION OR STARTING TO MOVE FROM A  
 6 COMPLETE STOP. WHEN THIS OCCURS WHILE STARTING  
 7 FROM A COMPLETE STOP, THE ENGINE REVOLUTIONS  
 8 (REV) DROPS BELOW 1K RPM DESPITE GAS PEDAL INPUT  
 9 THUS THE CAR WOULD NOT MOVE/ACCELERATE FOR  
 10 ABOUT 5 SECONDS. WHEN THIS OCCURS WHEN THE CAR IS  
 11 IN MOTION SUCH AS ON THE HIGHWAY OR MERGING  
 12 ONRAMP INTO THE HIGHWAY THE CAR UNSAFELY SLOWS  
 13 DOWN DESPITE GAS PEDAL INPUT. AGAIN THIS ISSUE IS  
 14 OBSERVED DURING UNUSUALLY HOT DAYS EG. JULY 22,  
 15 2017 IN ST. LOUIS, MISSOURI

16 103. On January 31, 2018, the owner of a 2013 Mazda CX7 filed the  
 17 following complaint with NHTSA:

18 TL\* THE CONTACT INQUIRED ABOUT A 2013 MAZDA CX7.  
 19 THE CONTACT STATED THAT THE VEHICLE EXPERIENCED  
 20 A LACK OF ACCELERATION AND REDUCED ENGINE  
 21 POWER. ALSO, THE TRACTION CONTROL WARNING  
 22 INDICATOR ILLUMINATED. THE DEALER WAS NOT  
 23 CONTACTED. THE MANUFACTURER WAS NOT NOTIFIED.  
 24 THE FAILURE MILEAGE WAS APPROXIMATELY 59,400<sup>34</sup>

25 104. On May 13, 2018, the owner of a 2018 Mazda CX7 filed the  
 26 following complaint with NHTSA:

27 SITUATION: DRIVING UPHILL ON HWY 120 ON NEW PRIEST  
 28 ROAD, BIG OAK FLAT, CA, TWO LANE MOUNTAIN ROAD.  
 SLOW CAR IN FRONT OF ME AND A DELIVERY TRUCK  
 TAILGATING. SLOW CAR EVENTUALLY MOVES ASIDE IN  
 A TURNOUT AND I ACCELERATE TO OPEN UP SPACE  
 BETWEEN MYSELF AND WHAT I THOUGHT WOULD BE THE  
 TRUCK BUT SOMEHOW THE SLOW CAR RETURNED TO THE  
 DRIVING LANE AHEAD OF THE TRUCK. I CONTINUE TO  
 ACCELERATE TO ATTEMPT TO OPEN UP SPACE BETWEEN

34 NHTSA ID 1101872.  
 35 NHTSA ID 11066016.

1 MYSELF AND THE CAR BEHIND ME WHEN I LOST POWER,  
 2 THE CAR BEHIND ME MOVES TO THE OPPOSING TRAFFIC  
 3 LANE TO AVOID REAR ENDING MY CAR THAT IS RUNNING  
 4 IN DEGRADED MODE (ACCELERATOR HAS NO EFFECT,  
 5 BASICALLY MOVING ON IDLE POWER) AND NARROWLY  
 6 MISSES AN ONCOMING CAR AS I MOVE TOWARDS THE  
 7 RIGHT EDGE OF THE RIGHT LANE. TRUCK BEHIND ME HAS  
 8 TO BRAKE HARD TO AVOID REAR ENDING ME. THERE WAS  
 9 NO SHOULDER TO PULL OVER TO AT THAT LOCATION  
 10 IMMEDIATE LOCATION. I PULL OVER A FEW HUNDRED  
 11 YARDS FURTHER AT A SAFE LOCATION. GRADE WAS  
 12 PERHAPS 4% TO 6%. WEATHER: HOT 90 DEGREES SPEED:  
 13 ACCELERATING FROM 35 TO 50 MPH (GUESS) DIAGNOSTIC  
 14 LIGHTS: SMART CITY BRAKING SYSTEM FAILURE  
 15 WARNING, PLUS A LOT OF OTHER WARNING LIGHTS LIT  
 16 INCLUDING CHECK ENGINE LIGHT. AFTERMATH: I  
 17 PULLED SAFELY OVER, STOPPED THE ENGINE, WAITED A  
 18 WHILE AND RESTARTED THE ENGINE AND THE CAR  
 19 RETURNED TO ITS NORMAL DRIVING BEHAVIOR AND  
 20 COMPLETED MY TRIP. OTHER INFORMATION: THIS IS THE  
 21 3RD OCCURRENCE OF THIS BEHAVIOR. EACH TIME I HAVE  
 22 HAD MAZDA LOOK AT THE PROBLEM. 1ST OCCURRENCE  
 23 THEY REPLACED THE CYLINDER COIL, 2ND OCCURRENCE  
 24 THEY REPLACED A SPARK PLUG FOR MISFIRE. 3RD  
 25 OCCURRENCE, TO BE DETERMINED.

105. On June 12, 2018, the owner of a 2015 Mazda3 filed the following  
 complaint with NHTSA:

20 TL\* THE CONTACT OWNS A 2015 MAZDA 3. WHILE  
 21 ACCELERATING FROM A TRAFFIC LIGHT, THE VEHICLE  
 22 STALLED WITHOUT WARNING. THE CONTACT WAS  
 23 UNABLE TO RESTART THE VEHICLE. THE VEHICLE WAS  
 24 TOWED TO GUNTHER MAZDA (1800 S STATE RD 7, FORT  
 25 LAUDERDALE, FL 33317, (954) 797-6000) WHERE IT WAS  
 26 DIAGNOSED THAT THE BATTERY NEEDED TO BE  
 27 REPLACED. THE VEHICLE WAS REPAIRED; HOWEVER, THE  
 28 FAILURE RECURRED. THE VEHICLE WAS THEN TOWED TO  
 LOU BACHRODT MAZDA COCONUT CREEK (5400 SR 7,  
 COCONUT CREEK, FL 33073, (954) 245-0000) WHERE IT WAS  
 DIAGNOSED THAT THE FUEL PUMP NEEDED TO BE

36 NHTSA ID 11416469.

1 REPLACED. THE VEHICLE WAS REPAIRED, BUT THE  
2 FAILURE RECURRED TWICE. THE MANUFACTURER WAS  
3 INFORMED OF THE FAILURES. THE APPROXIMATE  
FAILURE MILEAGE WAS 36,000.<sup>37</sup>

4 106. On July 15, 2018, the owner of a 2018 Mazda-C filed the  
5 following complaint with NHTSA:

6 ON FRIDAY (JUNE 29TH, 2018) AROUND 9:29 PM, MY CAR  
7 BROKE DOWN WHILE MY FAMILY AND I WERE  
8 TRAVELING FROM ROCHESTER NY TO BOSTON  
9 MASSACHUSETTS. I WAS DRIVING DOWN THE  
10 MASSACHUSETTS TURNPIKE WHEN ALL OF A SUDDEN MY  
11 CHECK ENGINE LIGHT TURNED ON AND MY CAR JUST  
12 STARTED TO SLOW DOWN IN THE MIDDLE OF THE  
13 HIGHWAY. I WAS ABLE TO PULL OVER IN TIME AND  
14 CALLED MAZDA ROADSIDE ASSISTANCE BECAUSE AFTER  
15 THE CAR STOPPED, IT WOULDN'T TURN BACK ON. SINCE  
16 WE WERE ON A RESTRICTED HIGHWAY, MY CAR HAD TO  
17 BE TOWED AND WE WERE TAKEN TO A SAFER LOCATION.  
18 WHEN THE CAR WAS PUT DOWN, IT TURNED ON AND THE  
19 CHECK ENGINE LIGHT WAS STILL ON AND THE FUEL  
20 GAUGE SAID THAT THE CAR STILL HAD 40 MILES LEFT.  
21 THE GUY THAT TOWED OUR CAR SAID THAT IT MIGHT  
22 HAVE BEEN A FUEL ISSUE, SO WE WENT TO GET GAS.  
23 ONCE WE FILLED UP OUR TANK THE CHECK ENGINE  
24 LIGHT WAS STILL ON BUT WE WERE ABLE TO REACH OUR  
25 DESTINATION. THE NEXT MORNING, I TOOK THE CAR TO  
26 THE NEAREST MAZDA DEALERSHIP AND THEY  
27 RESTARTED THE CAR AND ACCORDING TO THEIR REPORT  
NOTHING WAS WRONG WITH THE CAR. THEY SAID THAT  
IT WAS SAFE TO DRIVE BUT THEY HAD NO CLEAR REASON  
AS TO WHY THE FUEL GAUGE WASN'T STATING THE  
CORRECT INFORMATION. AFTER THE TRIP I, REPORTED  
THIS ISSUE TO MAZDA AND THEY DIDN'T ANSWER ME  
UNTIL TWO WEEKS LATER. THEIR RESPONSE WAS THAT  
THERE WAS PROBABLY NOTHING WRONG WITH THE  
VEHICLE AND THAT THIS WAS A ONE TIME ISSUE. I DID  
RESEARCH ON MY OWN AND DISCOVERIES THAT  
SOMEONE FROM SAUDI ARABIA HAD A SIMILAR ISSUE.  
SINCE MAZDA HASN'T BEEN WILLING TO HELP RESOLVE  
THE SITUATION I AM FILING THIS COMPLAINT BECAUSE I

28 <sup>37</sup> NHTSA ID 11101309.

1 AM NOT WILLING TO PUT MY FAMILIES LIFE IN THE SAME  
2 RISK AGAIN.<sup>38</sup>

3 107. On January 2, 2019, the owner of a 2014 Mazda3 filed the following  
4 complaint with NHTSA:

5 OCCASIONALLY THE ENGINE WILL HESITATE WHEN  
6 ACCELERATING, AND THEN THE CHECK ENGINE LIGHT,  
7 TPM, AND STABILITY CONTROL LIGHT WILL ILLUMINATE  
8 ON THE DASH. LESS FREQUENTLY,THE ENGINE WILL  
9 OCCASIONALLY STALL WHILE DRIVING OR WHILE  
10 SITTING AT A STOP LIGHT. THE LIGHTS ON THE  
11 DASHBOARD WILL REMAIN ILLUMINATED, SO I DO NOT  
12 THINK IT ~~S~~ A TOTAL LOSS OF POWER.<sup>39</sup>

13 108. On June 2, 2019, the owner a 2019 Mazda3 filed the following  
14 complaint with NHTSA:

15 REAR VIEW MIRROR FELL OFF WHILE ON THE FREEWAY.  
16 HOT DAYS WILL BREAK DOWN THE ADHESIVE AND  
17 CAUSE THE REAR VIEW MIRROR TO FALL OFF. BRAKES  
18 VIBRATE HARSHLY WHEN IN SPORT MODE. FASTER THE  
19 VEHICLE GOES, THE MORE HARSH THE BRAKES WILL  
20 VIBRATE. - ACCELERATION IS JERKY ON LOW END  
21 (1ST/2ND) GEAR. IN STOP AND GO TRAFFIC, OR GOING UP  
22 HILL ON LOAD, ACCELERATION WILL FEEL JERKY WHEN  
23 TRY TO KEEP A STEADY SPEED BETWEEN-55MPH. CAR  
24 FEELS NORMAL WHEN PUSHING  
25 THE ACCELERATION HARDER.<sup>40</sup>

26 109. On July 23, 2019, the owner of a 2016 Mazda C~~X~~ filed the  
27 following complaint with NHTSA:

28 IN 2017, MY CAR SHUT OFF TWO TIMES, WITHOUT  
WARNING, ONE TIME AT A STOP LIGHT AND AGAIN ON  
THE HIGHWAY GOING 70MPH. WE WERE ACCELERATING  
AT THE STOP LIGHT WHEN IT SHUT OFF AND THEN  
DRIVING ON THE HIGHWAY. TOOK THE CAR TO THE

38 NHTSA ID 11111474.

39 NHTSA ID 11164555.

40 NHTSA ID 11217419.

1 DEALERSHIP AND 72 CODES CAME UP THEY SAID IT WAS  
 2 THE DVD PLAYERS (THAT THEY SOLD AND INSTALLED!!!)  
 3 THAT WERE CAUSING THE ISSUE. THEY SUPPOSEDLY  
 4 FIXED THE ISSUE. NOW IN JULY 2019, THE CAR SHUT OFF  
 5 AN ADDITIONAL FIVE TIMES. THREE TIMES WHILE  
 6 DRIVING AND TWICE IN A PARKING LOT. WE WERE ON A  
 7 HIGHWAY AGAIN WHEN THE CAR JUST SHUT OFF WITH  
 8 NO WARNING, LIGHTS ON THE DASH STARTED FLASHING,  
 9 AND THE POWER STEERING WENT OUT ONE OF THE  
 10 TIMES. MY HUSBAND HAD TO PUT IT IN NEUTRAL, COAST  
 11 TO THE SHOULDER, COME TO A COMPLETE STOP AND  
 12 THEN ATTEMPT TO START IT EACH TIME. CARS WERE  
 13 DODGING US EVERY TIME AND LUCKILY WE WEREN'T  
 14 HURT. MY CHILDREN WERE IN THE VEHICLE EVERY  
 15 SINGLE TIME. WE HAD THE CAR TOWED TO THE  
 16 DEALERSHIP WHERE 68 CODES CAME UP. THIS TIME  
 17 THEY'RE SAYING IT'S THE FUEL PUMP AND THAT THEY  
 18 CAN FIX IT, BUT CAN'T 100% GUARANTEE IT WON'T  
 19 HAPPEN AGAIN. WE WERE PUT IN A LIFE THREATENING  
 20 SITUATION EVERY TIME, WITHOUT WARNING, AFTER  
 21 GIVING THE DEALERSHIP A CHANCE TO FIX IT. THE CAR  
 22 IS UNDER THREE YEARS OLD AND ONLY HAS 30,400 MILES  
 23 ON IT.<sup>41</sup>

110. On September 6, 2019, the owner of a 2018 Mazda CX5 filed the  
 following complaint with NHTSA:

TL\* THE CONTACT OWNS A 2018 MAZDA CX5. WHILE  
 DRIVING 20 MPH AND BELOW, THE VEHICLE FAILED TO  
 ACCELERATE. THE CONTACT HAD TO DEPRESS THE  
 ACCELERATOR PEDAL WITH FORCE TO INCREASE THE  
 SPEED. THE CONTACT TOOK THE VEHICLE TO FINDLAY  
 MAZDA (7760 EASTGATE ROAD, HENDERSON, NV 89011,  
 (702) 9555555) TO BE REPAIRED PER NHTSA CAMPAIGN  
 NUMBER: 19V497000 (ENGINE, POWER TRAIN); HOWEVER,  
 THE REPAIR DID NOT CORRECT THE FAILURE. THE  
 CONTACT TOOK THE VEHICLE BACK TO THE DEALER, BUT  
 THEY WERE UNABLE TO LOCATE ANY FAILURE CODES.  
 THE MANUFACTURER WAS CONTACTED AND PROVIDED

<sup>41</sup> NHTSA ID 11234063.

1 CASE NUMBER: 12318934006. THE VEHICLE WAS NOT  
2 REPAIRED. THE FAILURE MILEAGE WAS 24,800<sup>2</sup>

3 111. On September 27, 2019, the owner of a 2014 Mazda6 filed the  
4 following complaint with NHTSA:

5 ENGINE WILL STALL OUT WHILE DRIVING VEHICLE  
6 LOSES ALL POWER CHECK ENGINE LIGHT COMES ON  
7 BATTERY LIGHT COMES ON TRACTION CONTROL LIGHT  
8 COMES ON. WHEN ENGINE STALS OUT AND THEN I LOSE  
9 POWER STEERING AND BRAKE CONTROL AND WILL HAVE  
10 TO PULL OVER TO THE SIDE TO RESTART THE VEHICLE.  
ENGINE WILL SPUTTER ON START UP WHICH SOUNDS  
11 LIKE A FAULTY MASS AIRFLOW SENSOR THIS IS A 2014  
12 MAZDA MAZDA 6 WITH 57000 MILES<sup>43</sup>

13 112. On November 12, 2019, the owner of a 2018 Mazda-~~CX~~ filed the  
14 following complaint with NHTSA:

15 MAZDA CX-5. CONSUMER WRITES IN REGARDS TO  
16 VEHICLE BEING TOTALED AS A RESULT OF LOSS OF  
17 ENGINE POWER. \*LD \*JS<sup>44</sup>

18 113. On February 6, 2020, the owner of a 2019 Mazda~~5CX~~ filed the  
19 following complaint with NHTSA:

20 I WAS DRIVING ON THE FREEWAY ABOUT 65 MILES PER  
21 HOUR AND THE THE CAR STARTED TO RUN ROUGH AND  
22 THE DASH LIGHTS WENT OUT. IT FELT LIKE IT WANTED  
23 TO STALL SO I KEPT MY FOOT ON THE GAS AND BRAKE  
24 AND EXITED THE FREEWAY AND DROVE THE SIDE  
25 STREETS HOME. THE PROBLEM DID NOT HAPPEN AGAIN  
26 SO FAR.<sup>45</sup>

27 <sup>42</sup> NHTSA ID 11253636.

28 <sup>43</sup> NHTSA ID 11258590.

<sup>44</sup> NHTSA ID 11278994.

<sup>45</sup> NHTSA ID 11307591.

1 114. On May 9, 2020, the owner of a 2018 Mazda CX5 filed the following  
2 complaint with NHTSA:

3 ON MAY 9, 2020, OUR MAZDA CX5 LOST THRUST, STALLED  
4 AND CAME TO A COMPLETE STOP WHILE DRIVING ON A  
5 HIGHWAY GOING 55 MPH ON A STRAIGHT 3 LANE ROAD.  
6 THIS OCCURRED DESPITE THE PCM PROGRAMMING WAS  
7 RE-CALIBRATED DUE TO A MANUFACTURER RECALL IN  
8 SEPTEMBER 2019 (NHTSA RECALL NO. 19V497000). THE  
9 CAR IS TOWED TO A MAZDA SERVICE CENTRE AND IS  
10 AWAITING DIAGNOSIS. \*TR<sup>46</sup>

11 115. On June 16, 2020, the owner of a 2019 Mazda CX5 filed the  
12 following complaint with NHTSA:

13 IN JULY 2019 (APPROXIMATELY 2 MONTHS AFTER  
14 DELIVERY) MY 2019 MAZDA CX-5 BEGAN TO DRIVE  
15 ROUGHLY AT SLOW SPEEDS SPECIFICALLY SPEEDS 15  
16 MPH OR BELOW. THE VEHICLE WOULD NOT COAST (EVEN  
17 DOWNHILL) AND WOULD SEEM TO SLIP OUT OF GEAR  
18 (THIS VEHICLE HAS AN AUTOMATIC TRANSMISSION).  
19 MORE SPECIFICALLY, THE VEHICLE WOULD BUCK AND  
20 LURCH ON ITS OWN WITHOUT ENGAGING THE  
21 ACCELERATOR OR BRAKE. THIS WAS HAPPENING GOING  
22 UPHILL, DOWNHILL AND ON FLAT GRADE. I BROUGHT  
23 THE VEHICLE TO THE DEALER AND AT THEIR REQUEST  
24 TOOK AN EMPLOYEE FOR A DRIVE SO THEY COULD FEEL  
25 IT. THE EMPLOYEE DID FEEL IT, TOLD THE SERVICE  
26 MANAGER, WHO THEN TOLD ME THAT, "THEY ARE  
27 SUPPOSED TO DRIVE LIKE THAT." HE SAID HE DROVE  
28 AROUND ANOTHER VEHICLE ON THE LOT THAT IS THE  
SAME MODEL AND YEAR, AND THAT IT PERFORMED THE  
SAME. PLEASE NOTE THAT THIS IS NOT THE SAME PERSON  
WHO WAS IN THE CAR TO EXPERIENCE HOW MY CAR WAS  
DRIVING. I PERSONALLY KNOW TWO OTHER PEOPLE WHO  
HAVE THE SAME EXACT YEAR AND MODEL CX-5. I  
SHARED MY EXPERIENCE WITH BOTH OWNERS THEY  
BOTH TOLD ME THAT THEIR CARS DO NOT PERFORM IN  
THAT WAY. ADDITIONALLY, I DROVE ONE OF THOSE  
VEHICLE AND THAT ONE DID NOT PERFORM IN THE SAME  
WAY THAT MINE DOES. I AM CONCERNED THAT THIS

46 NHTSA ID 11324001.

1 ISSUE IS BEING BRUSHED OFF. THERE IS NO WAY THAT  
2 MAZDA WOULD PURPOSELY DESIGN A CAR SO THAT IT  
3 JERKS, LURCHES, AND BUCKS AT SLOW SPEEDS. I HAVE  
4 READ REVIEWS ON ONLINE MESSAGE BOARDS WHERE  
5 OTHERS DO COMPLAIN OF SIMILAR EXPERIENCES, WHICH  
6 IS EVEN MORE CONCERNING. THIS POSES A SAFETY ISSUE  
7 FOR THE DRIVER, PASSENGERS, AND OTHERS ON THE  
8 ROAD WHO MAY BE DRIVING NEARBY. I HAVE AN  
9 APPOINTMENT AND WILL BE TAKING THE CAR BACK THIS  
10 COMING MONDAY TO TRY AND FURTHER ADDRESS THIS  
11 ISSUE, BUT FELT IT NECESSARY TO FILE HERE IN THE  
12 CASE THAT FURTHER ACTION NEEDS TO BE TAKEN AT A  
13 LARGER SCALE SINCE IT APPEARS AS IF OTHERS, THOUGH  
14 NOT ALL, 2019 MAZDA CX-5 OWNERS ARE EXPERIENCING  
15 THE SAME. \*TR<sup>47</sup>

11 116. On June 30, 2020, the owner of a 2020-~~30~~ filed the following  
12 complaint with NHTSA:

13 I WAS DRIVING CAR ON.THE HIGHWAY AND AS I  
14 PREPARED TO EXIT I BRAKED AND THE  
15 CAR HESITATEDFOR 2 SECONDS BEFORE BRAKES  
16 ENGAGED. CAR HAS ALSO HAD HESITATION  
17 UPONACCELERATIONPERIODICALLY .THIS HAS BEEN AN  
18 ISSUE UPON JUST A FEW WEEKS OOWNERSHIP. THE  
19 BREAK ISSUE WAS JUST RECENTLY-29-20 I HAVE TAKEN  
20 THE CAR TO THE LOCAL DEALERSHIP ABOUT THE  
21 DRIVING/ACCELARATION ISSUE TWICE WITHOUT  
22 RESOLUTION.<sup>48</sup>

20 117. On September 4, 2020, the owner of a 2016 Mazda~~50~~ filed the  
21 following complaint with NHTSA:

22 TL\* THE CONTACT OWNS A 2018 MAZDA CX5. THE  
23 CONTACT STATED WHILE DRIVING AT LOW SPEEDS, THE  
24 VEHICLE STALLED AND WAS RESTARTED. WHILE THE  
25 PUSHTO-START WAS ENGAGED, THE VEHICLE REVVED  
26 UP HIGH, STALLED, AND RESTARTED. ADDITIONALLY,  
27 THE AIR CONDITIONER FALED TO OPERATE AS  
28 DESIGNED. THE RADIO WAS ALSO INOPERABLE. THE

27 <sup>47</sup> NHTSA ID 11329175.

28 <sup>48</sup> NHTSA ID 11331647.

1 CHECK ENGINE WARNING LIGHT WAS ILLUMINATED. THE  
2 VEHICLE WAS TAKEN TO GUNTHER MAZDA (1800 S STATE  
3 RD 7, FORT LAUDERDALE, FL 33317, (954) 426565) WHERE  
4 IT WAS DIAGNOSED THAT THE BATTERY, A/C MOTOR AND  
5 AN UNKNOWN CONTROLLER NEEDED TO BE REPLACED.  
6 THE VEHICLE WAS REPAIRED SEVERAL TIMES HOWEVER,  
7 THE FAILURE RECURRED. THE MANUFACTURER WAS  
8 CONTACTED HOWEVER, NO FURTHER ASSISTANCE WAS  
9 PROVIDED. THE FAILURE MILEAGE WAS 2,000<sup>49</sup>

10 118. On February 8, 2021, the owner of a 2017 Mazda CX filed the  
11 following complaint with NHTSA:

12 LOSS OF POWER TO A COMPLETE SHUTDOWN WHILE AT  
13 HIGHWAY SPEEDS OF 60MPH WITH FUEL TANK  
14 READING 30 MILES TO EMPTY. TOW WAS NECESSARY TO  
15 DEALERSHIP. REPLACED FUEL PUMP. 2ND OCCURRENCE  
16 WITH 60 MILES TO EMPTY. BROKE DOWN AGAIN WHILE  
17 AT HIGHWAY SPEEDS. TOWED A SECOND TIME TO  
18 DEALERSHIP. REPLACE HIGH/LOW FUEL PUMP. WAS  
19 INSTRUCTED NOT TO OPERATE VEHICLE BELOW 1/4 TANK  
20 OF FUEL. MAJOR SAFETY ISSUE WHILE AT HIGHWAY  
21 SPEEDS WITH DIFFICULTY MOVING TO A SAFE AREA.  
22 SEEMS TO BE A DESIGN OR FUEL PUMP ISSUE.<sup>50</sup>

23 119. On February 14, 2021, the owner of a 2017 Mazda6 filed the  
24 following complaint with NHTSA:

25 I BOUGHT MY 2017 MAZDA 6 BRAND NEW. WHILE THE CAR  
26 WAS IN WARRANTY IN JANUARY 2020 WHILE I WAS  
27 DRIVING WITH 50 MILES IN HOUR, THE ENGINE WAS  
28 RUNNING ROUGH, THE ENGINE LIGHT WAS ON AND THE  
ENGINE STALL. THE CAR WAS TOWED BY MAZDA AT  
DEALER. THEY REPLACED THE FUEL PUMP AT THAT TIME.  
FEW DAYS AGO WHILE I WAS DRIVING WITH 35 MILES IN  
HOUR THE CAR DID THE SAME THING. MAZDA TOWED  
THE CAR TO ANOTHER DEALER. AFTER DIAGNOSIS THEY  
TOLD ME THAT IS NOTHING WRONG WITH THE CAR AND  
THE CAR IS NOT UNDER THE WARRANTY ANYMORE . I  
TOLD THEM THAT THE ENGINE LIGHT WAS ON AND

49 NHTSA ID 11353214.

50 NHTSA ID 11395226.

1 SOMETHING MUST BE WRONG. THEY DIDNT RESPOND.  
2 THE CAR HAS 24,000 MILES AND I AM AFRAID TO DRIVE IT  
3 ANYMORE.<sup>51</sup>

4 120. On April 13, 2021, the owner of a 2017 Mazda ~~6~~ filed the  
5 following complaint with NHTSA:

6 DRIVING ON EXPRESSWAY 65MPH WITH JUST UNDER A  
7 QUARTER TANK OF GAS AND ENGINE CUT OFF ON ITS  
8 OWN. MY SON WAS ABLE TO PULL OFF TO THE SIDE OF  
9 THE ROAD, BUT WAS VERY DANGEROUS AS IT WAS A  
10 VERY BUSY HIGHWAY. I FEEL THAT THE FUEL PUMP IS  
11 DEFECTIVE AT HIGHWAY SPEEDS. HAD VEHICLE  
12 IMMEDIATELY TOWED TO CLOSEST DEALER. I WAS  
13 CHARGED A DIAGNOSTIC FEE. AGAIN, I FEEL IT IS A WEAK  
14 DESIGN OF THE FUEL PUMP AND DANGEROUS TO DRIVE  
15 AT HIGHWAY SPEEDS.<sup>52</sup>

16 121. On April 23, 2021, the owner of a 2013 Mazda ~~6~~ filed the  
17 following complaint with NHTSA:

18 WHILE DRIVING MY VEHICLE ON THE INTERSTATE THE  
19 CAR LOST THE ABILITY TO ACCELERATE. ALL OF THE  
20 DASHBOARD LIGHTS CAME ON AND I HAD TO COAST TO  
21 THE SIDE OF THE INTERSTATE. AFTER RESTARTING THE  
22 VEHICLE I WAS ABLE TO DRIVE IT BUT I CANNOT TAKE  
23 THE VEHICLE OVER 30 MPH NOW WITHOUT IT  
24 SHUTTERING AND HAVING ACCELERATION ISSUES. THIS  
25 IS A SERIOUS AND LIFE THREATENING ISSUE THAT NEEDS  
26 TO BE FIXED FREE OF CHARGE. I HAVE FOUND OTHER  
27 REPORTS OF THIS HAPPENING BUT I SEE NO RECALL  
28 INFORMATION. THIS NEEDS TO BE FIXED BEFORE MAZDA  
HAS LAWSUITS FILED AGAINST THEM. THIS IS A  
MANUFACTURING ERROR AND NOT A USAGE ERROR.  
PLEASE LOOK INTO THIS.<sup>53</sup>

51 NHTSA ID 11396179.

52 NHTSA ID 11407948.

53 NHTSA ID 11413591.

1 122. On September 12, 2021, the owner of a 2018 Mazda5 OKed the  
2 following complaint with NHTSA:

3 WILL NOT ACCELERATE AT TIMES NO MATTER HOW FAR  
4 YOU PRESS DOWN ON GAS PEDAL AND WILL STALL RIGHT  
5 AFTER. I WILL PULL OVER SHUT OFF VEHICLE AND  
6 RESTART. THIS SOMETIMES CORRECTS THE PROBLEM  
7 RIGHT AWAY. OTHER TIMES IT LASTS LONGER. SYSTEM  
8 MALFUNCTION LIGHT RANDOMLY COMES ON.<sup>54</sup>

9 123. As demonstrated above, Class Vehicles suffer from a uniform defect  
10 that causes the Fuel Pump to malfunction and fail prematurely. Compounding the  
11 issue, drivers often are not protected from these safety risks by a warning prior to  
12 Fuel Pump failure. The above complaints are mere examples of the ones lodged  
13 with NHTSA regarding the Fuel Pump Defect. All the complaints above  
14 experienced symptoms associated with the Fuel Pump Defect.<sup>55</sup>

15 124. Mazda knew that the Fuel Pump Defect was present in all Class  
16 Vehicles equipped with the defective Denso Fuel Pump, as demonstrated above,  
17 but it failed to include them in the Recall. Mazda's unconscionable act deprives  
18 those Class Members not included in the Recall a free and adequate repair, if one  
19 is devised and implemented.

20 125. As demonstrated, the Fuel Pump Defect affects all Class Vehicles,  
21 and not just the vehicles that were part of Mazda's Recall. Additionally, the Fuel  
22 Pump Defect creates an unreasonable risk of injury or death to Plaintiff  
23 Members and others.

24 126. The Fuel Pump Defect causes Class Vehicles to become dangerous  
25 and inoperable while on the road and therefore they are not fit for their ordinary  
26 purpose.

27 <sup>54</sup> NHTSA ID 11432642.

28 <sup>55</sup> See, e.g. Exhibits A and C.

1 D. DEFENDANTS KNEW ABOUT THE FUEL PUMP DEFECT,  
2 BUT CONTINUED TO MANUFACTURE, MARKET, AND  
3 SELL CLASS VEHICLES

4 127. Mazda knew, should have known, or were reckless in not knowing  
5 about the Fuel Pump Defect but concealed or failed to disclose the defect and  
6 continued to manufacture, market, and sell its popular Class Vehicles including  
7 the Recalled Vehicles<sup>±</sup> equipped with the defective Denso Fuel Pump.  
8 Specifically, Mazda knew, should have known, or was reckless in not knowing the  
9 defective Fuel Pumps in the Class Vehicles exposed Class Members to extreme  
10 danger and, in order to render them safe, the Class Vehicles needed new or  
11 enhanced Fuel Pumps that functioned safely and as intended. Nonetheless,  
12 failed to take corrective action.

13 128. In fact, Mazda knew, should have known, or was reckless in not  
14 knowing about the Fuel Pump Defect since the release process of designing,  
15 manufacturing, engineering, and testing the Class Vehicles. Specifically, Mazda  
16 conducts rigorous pre-production testing and validation. Mazda and Denso  
17 conduct various pre-release testing, such as production part approval process  
18 <sup>3 3 3 \$ 3</sup> WHVWLQJ DQG IDLOXUH PRGH DDGHHIHF  
19 these phases, Mazda would have gained comprehensive and exclusive knowledge  
20 about the Fuel Pumps, particularly the basic engineering principles behind the  
21 construction and function of the Fuel Pumps such as their imperviousness  
22 to fuel absorption and deformation. However, Mazda failed to act on that  
23 knowledge and instead installed the defective Fuel Pumps in the Class Vehicles,  
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25  
26 <sup>56</sup>

27 [http://suppliers.mazdausa.com/Library/Quality\\_Control\\_Standard\\_For\\_Suppliers](http://suppliers.mazdausa.com/Library/Quality_Control_Standard_For_Suppliers.pdf?bcs-agentscanner=a38b7f25b0-3443829f-9a9ba5195bd0)  
28 [.pdf?bcs-agentscanner=a38b7f25b0-3443829f-9a9ba5195bd0](http://suppliers.mazdausa.com/Library/Quality_Control_Standard_For_Suppliers.pdf?bcs-agentscanner=a38b7f25b0-3443829f-9a9ba5195bd0) (last visited  
November 16, 2021).

1 and Mazda subsequently marketed and sold the vehicles to unsuspecting  
2 consumers without disclosing the safety risk or warning Class Members

3 129. Further, as set forth above, the TREAD Act requires automakers like  
4 Mazda to be in close contact with NHTSA regarding potential defects, and  
5 therefore Mazda should (and does) monitor NHTSA databases for consumer  
6 complaints regarding their automobiles. From its monitoring of the NHTSA  
7 databases, Mazda knew or should have known of the many Fuel Pump Defect  
8 complaints lodged as early as 2017 such as those quoted above. However, Mazda  
9 failed to act on that knowledge by taking action, including recalling the vehicles  
10 with the Fuel Pump Defect

11 130. Despite Mazda's extensive knowledge, Mazda failed to act on that  
12 knowledge by warning Class Members. Sacrificing consumer safety for profits,  
13 Mazda instead chose to enrich itself by using false and misleading marketing to  
14 sell the Class Vehicles as safe and durable at inflated prices.

15 131. Like Mazda, Denso knew of the Fuel Pump Defect since long before  
16 it recalled its defective Fuel Pumps on April 27, 2020. Denso tells customers  
17 "3 > E @ H F D X V H i g o r o u s m a n u f a c t u r i n g a n d t e s t i n g p r o c e s s p r o d u c e s e a c h  
18 I X H O S X P S \ R X F D Q E H V X U H L W P H H W V R X U K L  
19 As part of its rigorous testing of fuel pumps and its ongoing relationships with  
20 manufacturer customers, Denso knew or should have known about the Fuel Pump  
21 Defect months, if not years, before it initiated a recall on April 27, 2020.

22 132. Evidencing its extensive knowledge, Denso knew as early as 2016  
23 about the Fuel Pump Defect. In 2016, Denso filed a patent application with the  
24 United States Patent and Trademark Office to change the chemical composition of  
25 its impeller for greater resistance to swelling. As Denso stated in the application:

26 The housing includes an inner wall defining a pump chamber into  
27 which a fuel flows. The impeller is made of resin and housed in the  
28 housing. The impeller is positioned such that a clearance having a  
specified dimension is secured between the inner wall and the

1 impeller. The impeller may be swelled due to the fuel and water  
 2 contained in the fuel, therefore a rotation of the impeller may be  
 3 stopped when the impeller is swelled and comes in contact with the  
 4 housing. Thus, the dimension of the clearance is set to prevent the  
 5 impeller from coming in contact with the housing. However, when  
 6 the dimension of the clearance is too large, an abnormality, e.g., an  
 7 increase of an output loss of the fuel pump or an increase of a power  
 8 consumption of the fuel pump, may occur because the fuel leaks  
 9 through the clearance. Therefore, it is required to find a resin  
 10 material to suppress a dimensional change of the impeller, which is  
 11 mounted to the fuel pump, due to the fuel and the water contained  
 12 in the fuel. The dimensional change will be referred to as a swelling  
 13 amount hereinafter.<sup>57</sup>

14 133. Denso's knowledge of the Fuel Pump Defect reasonably predates the  
 15 filing of the patent because Denso must have discovered the need for improved  
 16 impeller material well before it filed the patent. Specifically, Denso must have  
 17 learned of the Fuel Pump Defect since the original design, engineering, testing,  
 18 and validation of the Fuel Pump and impeller, but at the very least from continued  
 19 product improvement, testing, and validation of the Fuel Pump and impeller.

20 134. Thus, between 2016, when Denso first learned of the Fuel Pump  
 21 Defect, and April 27, 2020, when Denso issued the recall to Mazda and other  
 22 automobile manufacturers, Denso had exclusive knowledge of the Fuel Pump  
 23 Defect, and yet Denso failed to disclose the Defect to Mazda and other Class  
 24 Members.

25 135. Alternatively, Denso actively concealed, and continues to conceal,  
 26 the Fuel Pump Defect. Denso long knew of the Fuel Pump Defect, but in order to  
 27 capitalize its economic gains, it intentionally failed to disclose Mazda or the  
 28 Class Members. The Fuel Pump Defect is a serious safety defect that places

<sup>57</sup> U.S. Patent Application No. 15767375, Impeller for Fuel Pump  
 (application date Oct. 26, 2016) (Denso Corporation, et al. applicants),  
 available at <https://patentscope.wipo.int/search/en/detail.jsf?docId=US231859623>  
 (last visited November 16, 2021).

1 Plaintiffs and Class Members at an increased risk for injury or death, as Denso  
2 admitted.<sup>58</sup> Mazda and Class Member did not know of the Fuel Pump Defect, and  
3 they could not have discovered it through reasonable diligence. Plaintiff and other  
4 Class Members were damaged by Denso's failure to disclose the Fuel Pump  
5 Defect, and had Denso disclosed it, they would not have purchased their Class  
6 Vehicles equipped with the Fuel Pump, certainly would have paid less to do so.

7 136. Denso could have, but failed to, disclose the Fuel Pump Defect to  
8 Mazda. Additionally, Denso could have, but failed to, disclose the Fuel Pump  
9 Defect to Plaintiffs and the Class Member by publishing it on its website, issuing  
10 a press release, or issuing an equipment recall, like it ultimately did.

11 137. Defendants, at all material times, regularly met and collaborated, and  
12 continue to meet and collaborate, regarding product quality and trends. Through  
13 these regular discussions, each Defendant knew, should have known, or were  
14 reckless in not knowing what the other knew about the Fuel Pump Defect or the  
15 Fuel Pump in general.

16 138. Despite Defendants' extensive knowledge, they failed to act on that  
17 knowledge by warning Class Members. Sacrificing consumer safety for profits,  
18 Defendants instead chose to enrich themselves by using false and misleading  
19 marketing to sell the Fuel Pumps and Class Vehicles as safe and durable at inflated  
20 prices.

21 E. MAZDA CONTINUOUSLY TOUTED CLASS VEHICLES AS  
22 SAFE AND DEPENDABLE, CONCEALING THE FUEL PUMP  
23 DEFECT

24 139. Mazda's overarching marketing message for the Class Vehicles was  
25 and is that the vehicles are safe and dependable and their engines can be relied  
26 on to perform well. This marketing message is false and misleading given the  
27

28 <sup>58</sup> Exhibits A and B.

1 propensity of the Fuel Pumps in the Class Vehicles to fail, causing the vehicles  
2 engines to run rough, stall and become inoperable which Mazda admits, creates  
3 an unreasonable risk of a crash.

4 140. For example, Mazda dedicates a page on its website entitled  
5 <sup>3</sup>VDIHW\ ' ZKHUH 0DJGD WRXWV WKH VDIHW\ RI L  
6 indicate.<sup>59</sup>

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18 141. In addition to its general marketing message of safety, Mazda made  
19 representations specifically about the safety of the Class Vehicles. For example,  
20 below is a screen shot from a 2013 Mazda 3 sales brochure:<sup>60</sup>

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24

25 <sup>59</sup> <https://www.mazda.com/en/innovation/safety> (last visited November 16,  
26 2021).

27 <sup>60</sup> [https://www.autobrochures.com/makes/Mazda/3/Mazda\\_US%203\\_2013\\_2.pdf?bcsagentscanner=d776a7e516f-ac4e9b98-1cdb82e50896](https://www.autobrochures.com/makes/Mazda/3/Mazda_US%203_2013_2.pdf?bcsagentscanner=d776a7e516f-ac4e9b98-1cdb82e50896) (last visited  
28 November 16. 2021).

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142. Below is a screenshot of a 2013 Mazda CX sales brochure<sup>61</sup>:

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<sup>61</sup> [https://www.autobrochures.com/makes/Mazda/CX/Mazda\\_US%20CX5\\_2013.pdf?bcagentscanner=5d4824600688a4dae2a7c36321cf6b9](https://www.autobrochures.com/makes/Mazda/CX/Mazda_US%20CX5_2013.pdf?bcagentscanner=5d4824600688a4dae2a7c36321cf6b9) (last visited November 16, 2021).

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143. Below is a screenshot of a 2013 Mazda CX sales brochure<sup>62</sup>:

144. Mazda made similar representations throughout the class period. For example, below is a screenshot from a 2015 Mazda 6<sup>63</sup>:

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<sup>62</sup> [https://www.autobrochures.com/makes/Mazda/CX/Mazda\\_US%20CX9\\_2013.pdf?bcagentscanner=f45dcc28f67-5f4d-818f-a9316754d14a](https://www.autobrochures.com/makes/Mazda/CX/Mazda_US%20CX9_2013.pdf?bcagentscanner=f45dcc28f67-5f4d-818f-a9316754d14a) (last visited November 16, 2021).

<sup>63</sup> [https://www.autobrochures.com/makes/Mazda/6/Mazda\\_US%206\\_2015.pdf?bcagentscanner=bf7882ecd08f847-8011-a373a291750](https://www.autobrochures.com/makes/Mazda/6/Mazda_US%206_2015.pdf?bcagentscanner=bf7882ecd08f847-8011-a373a291750) (last visited November 16, 2021).

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145. Below is a screenshot from a 2015 Mazda CX-5 sales brochure.<sup>64</sup>

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<sup>64</sup> [https://www.autobrochures.com/makes/Mazda/CX-5/Mazda\\_US%20CX5\\_2015.pdf?bcagentscanner=f2c549170753140858965c0f62d7123](https://www.autobrochures.com/makes/Mazda/CX-5/Mazda_US%20CX5_2015.pdf?bcagentscanner=f2c549170753140858965c0f62d7123) (last visited November 16, 2021).

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146. Below is a screenshot from a 2016 Mazda CX sales brochure.<sup>65</sup>

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<sup>65</sup> [https://www.autobrochures.com/makes/Mazda/CX/Mazda\\_US%20CX9\\_2016.pdf?bcagentscanner=4185c79075a6134aa57b1048b28445f3](https://www.autobrochures.com/makes/Mazda/CX/Mazda_US%20CX9_2016.pdf?bcagentscanner=4185c79075a6134aa57b1048b28445f3) (last visited November 16, 2021).

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147. Below is a screenshot from a 2017 Mazda CX sales brochure<sup>66</sup>.

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<sup>66</sup> [https://www.autobrochures.com/makes/Mazda/CX/Mazda\\_US%20CX3\\_2017.pdf?bcagentscanner=07e10935237-6d4cab418806bd8b948d](https://www.autobrochures.com/makes/Mazda/CX/Mazda_US%20CX3_2017.pdf?bcagentscanner=07e10935237-6d4cab418806bd8b948d) (last visited November 16, 2021).

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148. Below is a screenshot from a 2018 Mazda CX sales brochure<sup>67</sup>:

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<sup>67</sup> [https://www.autobrochures.com/makes/Mazda/CX/Mazda\\_US%20CX5\\_2018.pdf?bcagentscanner=3da3f5e2ab32b45909917790e192b94](https://www.autobrochures.com/makes/Mazda/CX/Mazda_US%20CX5_2018.pdf?bcagentscanner=3da3f5e2ab32b45909917790e192b94) (last visited November 16, 2021).















































































































































































