#### OMB Control No.: 2127-0004

# Part 573 Safety Recall Report

# 20V-012

**Manufacturer Name:** Toyota Motor Engineering & Manufacturing

**Submission Date:** MAR 19, 2020 **NHTSA Recall No.:** 20V-012

Manufacturer Recall No.: See attached report



#### **Manufacturer Information:**

Manufacturer Name: Toyota Motor Engineering &

Manufacturing

Address: 6565 Headquarters Drive

Plano TX 75024

Company phone: 1-800-331-4331

# **Population:**

Number of potentially involved: 1,830,752 Estimated percentage with defect: NR

#### **Vehicle Information:**

Vehicle 1: 2014-2015 Toyota Land Cruiser

Vehicle Type :
Body Style :
Power Train : NR

Descriptive Information: (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: SEP 02, 2013 - MAR 11, 2015

Vehicle 2: 2018-2019 Toyota Highlander

Not sequential

Vehicle Type :
Body Style :
Power Train : NR

Descriptive Information: (1)

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End: NR

Production Dates: NOV 08, 2017 - JUL 03, 2019

NR

Vehicle 3: 2018-2019 Toyota Tacoma

Vehicle Type : Body Style : Power Train : NR

VIN Range 1 : Begin :

**Descriptive Information:** (1)

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Production Dates :	NOV 07, 2017 - I	FEB 19, 2019						
VIN Range 1:		NR	End: NR		☐ Not sequential			
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Vehicle Type :		ota Tundra						
Body Style :								
Power Train :	NR							
Descriptive Information :	vehicles in this reconstruction (2) Based on to certain vehicle produced during contain fuel pure either (1) a pure impeller that was Vehicles with fure conditions are reconstructed (3) Some hy However, with the vehicles will enter and reduced modistances. This conduct a custom Note: Unknown to actually contastall while driving stall while driving contact and custom stall while driving contact and custom custom contact and custom contact and custom contact and custom cu	range were sold in Toyota's curre les with specific period in period in period in period in period in period in the exception of the exception. Toyota is unable in the defect. Very at higher specific in the exception in the defect.	in the U.S. ent understanding of fuel pumps supplieds under specific circoduced with impetype with lower suroduction solvent divere not produced whis time. e equipped with the LS500h and LC500 iving mode, resulting thich the vehicle cant an unreasonable in campaign for thes	of the condition, ed by Denso, concrumstances. The llers of lower dericate strength or rying for longer under the aforementione aforementione in illumination still be driven risk to safety. The vehicles in the stimate of the pendany variables, sur	ntaining impellers hese vehicles ensity and contain r (2) a pump periods of time. mentioned  ed fuel pumps. on occurs, these on of warning lights for certain coyota intends to future.  rcentage of vehicles lead to a vehicle uch as the specific			
Production Dates :	APR 02. 2018 - I	FEB 06, 2019						
VIN Range 1:		NR	End: NR		☐ Not sequential			
Vehicle Type : Body Style : Power Train :			vahiolog are within	the above and	uction poried not all			
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Production Dates: APR 02, 2018 - MAY 06, 2019

Vehicle 6: 2014-2015 Lexus GX460

Vehicle Type :
Body Style :
Power Train : NR

Power Train: NR

Descriptive Information: (1)

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Vehicle 7: 2018-2019 Lexus LC500  Vehicle Type: Body Style: Power Train: NR  Descriptive Information:  (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.  (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.  (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of L5500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.  Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.  Production Dates: OCT 06, 2017 -JAN 31, 2019  VIN Range 1: Begin: NR End: NR Not sequential  Vehicle 8: 2018-2019 Lexus LS500  Vehicle 7type: Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Based on Toyota's current understanding of the condition, this reca				_	•	
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and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.  Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.  Production Dates: OCT 06, 2017 - JAN 31, 2019  VIN Range 1: Begin: NR End: NR Not sequential  Vehicle 8: 2018-2019 Lexus LS500  Vehicle Type: Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.  (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain						
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production condition of fuel pump impeller and vehicle operating conditions.  Production Dates: OCT 06, 2017 - JAN 31, 2019  VIN Range 1: Begin: NR End: NR Not sequential  Vehicle 8: 2018-2019 Lexus LS500  Vehicle Type: Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain						
Production Dates: OCT 06, 2017 - JAN 31, 2019  VIN Range 1: Begin: NR End: NR				_	•	
Vehicle 8: 2018-2019 Lexus LS500  Vehicle Type: Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain		production co	ndition of fuel p	ımp imp	eller and v	vehicle operating conditions.
Vehicle 8: 2018-2019 Lexus LS500  Vehicle Type: Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain	Production Dates :	OCT 06, 2017	-JAN 31, 2019			
Vehicle Type: Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain	VIN Range 1:	Begin:	NR	End:	NR	■ Not sequential
Vehicle Type: Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain	Vehicle 8:	2018-2019 L€	exus LS500			
Body Style: Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S. (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain			<b>7146 25 3 3 3</b>			
Descriptive Information:  (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.  (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain	V 1					
vehicles in this range were sold in the U.S.  (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain	ů ů					
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produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain						
contain fuel pumps that were produced with impellers of lower density and contain						
either (1) a pump impeller of a type with lower surface strength or (2) a pump		contain fuel p	umps that were	oroduce	d with imp	ellers of lower density and contain
		either (1) a pu	amp impeller of a	type w	ith lower s	urface strength or (2) a pump

	impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.  (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.						
Production Dates :	to actually conta stall while driving production cond	in the defect. V ng at higher spe lition of fuel pu	Whether the issue in eac	ate of the percentage of vehicles ch case will lead to a vehicle variables, such as the specific e operating conditions.			
VIN Range 1:		NR	End: NR	☐ Not sequential			
Vehicle 7ype: Body Style: Power Train: Descriptive Information:	(1) Although vehicles in this r (2) Based or to certain vehicle produced during contain fuel purneither (1) a purnimpeller that wa Vehicles with fue conditions are no (3) Some hy However, with the vehicles will ente and reduced modistances. This conduct a custor Note: Unknown. to actually contains and the conduct and the conduct a custor of the conduct and the conduct a custor of the conduct and the conduct a custor of the conduct and the con	I in the U.S. ent understanding of the fuel pumps supplied by ds under specific circum roduced with impellers type with lower surface roduction solvent dryin, were not produced under his time. e equipped with the afo LS500h and LC500h, if iving mode, resulting in which the vehicle can sti nt an unreasonable risk n campaign for these vel ble to provide an estima Whether the issue in each	rementioned fuel pumps. The condition occurs, these illumination of warning lights ll be driven for certain to safety. Toyota intends to				
Production Dates :	SEP 02, 2013 - M	IAR 11, 2015					
VIN Range 1:	Begin :	NR	End: NR	☐ Not sequential			

Vehicle 10: 2015-2015 Lexus NX200t

Vehicle Type :
Body Style :
Power Train : NR

Descriptive Information: (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: OCT 20, 2014 - JUN 02, 2015

Vehicle 11: 2018-2019 Lexus RC300

Vehicle Type :
Body Style :
Power Train : NR

Tower Hunt: 141

- Descriptive Information: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
  - (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
  - (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain

		-		isk to safety. Toyota intends to vehicles in the future.					
Production Dates :	to actually cont stall while drivi production con	Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.							
VIN Range 1:		NR	End: NR	☐ Not sequential					
	0								
Vehicle Type : Body Style :		rota Sienna							
Power Train : Descriptive Information :									
Production Dates : VIN Range 1 :		FEB 11, 2019 NR	End: NR	☐ Not sequential					
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:	NR		ehicles are within tl	ne above production period, not all					
		range were sold		•					

Not sequential

- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: OCT 19, 2017 - FEB 08, 2019

VIN Range 1 : Begin : NR End : NR

Vehicle 14: 2018-2019 Toyota Camry

Vehicle Type : Body Style :

Power Train: NR

**Descriptive Information:** (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific

D 1 11 D 1	-			eller and v	ehicle operating conditions.
Production Dates :				ND	□ N
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
Vehicle 15 : Vehicle Type : Body Style :		oyota Avalon			
Power Train :	NR				
Power Train: NR  Descriptive Information: (1) Although the involved vehicles are within the above production period, no vehicles in this range were sold in the U.S.  (2) Based on Toyota's current understanding of the condition, this recall app to certain vehicles with specific fuel pumps supplied by Denso, containing impell produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and cont either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of tim Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.  (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning list and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.  Note: Unknown. Toyota is unable to provide an estimate of the percentage of vel to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific care will read to a vehicle stall while driving at higher speeds depends on many variables, such as the specific care will read to a vehicle stall while driving at higher speeds depends on many variables, such as the specific care will read to a vehicle stall while driving at higher speeds depends on many variables, such as the specific periods are required by the condition, this recall approach are required by the condition of the condition, the condition of the condi					of the condition, this recall applies led by Denso, containing impellers ircumstances. These vehicles ellers of lower density and contain urface strength or (2) a pump drying for longer periods of time. under the aforementioned e aforementioned fuel pumps. Oh, if the condition occurs, these ang in illumination of warning lights an still be driven for certain risk to safety. Toyota intends to se vehicles in the future.
Production Dates :	-				. 0
VIN Range 1:		NR	End:	NR	☐ Not sequential
	0				
Vehicle 16 : Vehicle Type : Body Style : Power Train :		oyota 4Runne	r		
		ugh the involv	od vohiolog	aro within	the above production period not all
Descriptive Information :	vehicles in the (2) Based to certain veh produced dur contain fuel peither (1) a peimpeller that Vehicles with	is range were l on Toyota's on Toyota's on the specific poumps that we ump impeller was exposed	sold in the U current under cific fuel pureriods under the produced of a type with to production	J.S. erstanding mps suppli r specific ci l with impe th lower su on solvent c	the above production period, not all of the condition, this recall applies and by Denso, containing impellers arcumstances. These vehicles ellers of lower density and contain arface strength or (2) a pump drying for longer periods of time. under the aforementioned
	6 11				at to 40 CED SE72

	(3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.						
	to actually conta stall while driving	in tȟe defect.  \ ng at higher spe	Vhether eds dep	the issue in each ends on many va	e of the percentage of vehicles case will lead to a vehicle riables, such as the specific operating conditions.		
Production Dates :	SEP 02, 2013 - F	EB 19, 2015					
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential		
Vehicle 17: Vehicle Type: Body Style: Power Train: Descriptive Information:	<ul><li>(1) Although vehicles in this r</li><li>(2) Based on to certain vehicle produced during contain fuel pure</li></ul>	n the involved vange were sold Toyota's curre es with specific specific period ups that were p	in the Uent under fuel pu ls under roduced	J.S. erstanding of the omps supplied by lessenting in the comment of the comment	ove production period, not all condition, this recall applies Denso, containing impellers tances. These vehicles of lower density and contain strength or (2) a pump		
	impeller that wa Vehicles with fue conditions are no (3) Some hy However, with the vehicles will enter and reduced more distances. This con-	s exposed to preact to pumps that vot included at the brid models are exception of er a fail-safe draitive power in whose not preser	roduction were not his time e equipp LS500h iving me which the at an un	n solvent drying to produced under bed with the afore a and LC500h, if the ode, resulting in ille e vehicle can still reasonable risk to	for longer periods of time. the aforementioned ementioned fuel pumps. he condition occurs, these llumination of warning lights be driven for certain o safety. Toyota intends to cles in the future.		
	to actually conta stall while driving production cond	in the defect. \ ng at higher spe ition of fuel pu	Vhether eds dep	the issue in each ends on many va	e of the percentage of vehicles case will lead to a vehicle riables, such as the specific operating conditions.		
Production Dates : VIN Range 1 :		1AR 18, 2019 NR	End:	NR	☐ Not sequential		
Vehicle 18 : Vehicle Type :	2018-2019 Lexu	s IS300					

Body Style : Power Train : NR

Descriptive Information: (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: OCT 02, 2017 - JAN 31, 2019

Vehicle 19: 2018-2019 Lexus GS300

Vehicle Type :
Body Style :
Power Train : NR

**Descriptive Information:** (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Production Dates : VIN Range 1 :	to actually conta stall while drivin production cond OCT 13, 2017 - JA	in the defect. \ ng at higher spe ition of fuel pu	Whether the issue in eeds depends on ma	timate of the percentage of vehicles in each case will lead to a vehicle any variables, such as the specific hicle operating conditions.		
Vehicle 20 : Vehicle Type : Body Style : Power Train :	2013-2015 Lexu	s GS350				
Descriptive Information:	: NR					
Production Dates : VIN Range 1 :		EB 21, 2015 NR	End: NR	☐ Not sequential		
Vehicle 21: Vehicle Type: Body Style: Power Train: Descriptive Information:	<ul><li>(1) Although</li><li>vehicles in this r</li><li>(2) Based on</li></ul>	the involved v ange were sold Toyota's curre	in the U.S. ent understanding o	the above production period, not all of the condition, this recall applies ed by Denso, containing impellers		

produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.

(3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: OCT 03, 2017 - JAN 31, 2019

Vehicle 22: 2014-2014 Lexus IS-F

Vehicle Type:
Body Style:

Power Train: NR

**Descriptive Information:** (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific

	production condition of fuel pump impeller and vehicle operating conditions.							
Production Dates :	SEP 10 2013 - I	III.24 2014						
VIN Range 1:		NR	End:	NR	■ Not sequential			
	2017-2017 Lex	us IS200t						
Vehicle Type : Body Style :								
Power Train :								
Descriptive Information :	vehicles in this (2) Based o	range were sold n Toyota's curr	l in the U ent unde	rstanding of the condition	n, this recall applies			
	produced during contain fuel pure either (1) a pure impeller that w	to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned						
	conditions are not included at this time.  (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.							
	to actually cont stall while drivi	ain the defect. \ ng at higher spe	Whether eeds depo	ovide an estimate of the pe the issue in each case will ends on many variables, s eller and vehicle operating	l lead to a vehicle uch as the specific			
Production Dates :	OCT 02, 2017 -	OCT 02, 2017						
VIN Range 1:		NR	End:	NR	■ Not sequential			
Vehicle 24 : Vehicle Type : Body Style : Power Train :		us IS350						
Descriptive Information :	vehicles in this (2) Based o to certain vehic produced durin contain fuel pur either (1) a pun	range were sold n Toyota's curre les with specific g specific perion nps that were p np impeller of a	l in the U ent under fuel pun ds under produced type with	are within the above prod .S. rstanding of the condition nps supplied by Denso, co specific circumstances. T with impellers of lower d h lower surface strength on a solvent drying for longe	n, this recall applies ontaining impellers These vehicles ensity and contain or (2) a pump			

Vehicles with fuel pumps that were not produced under the aforementioned
conditions are not included at this time.

(3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: SEP 02, 2013 - FEB 21, 2015

VIN Range 1 : Begin : NR End : NR Not sequential

Vehicle 25: 2018-2019 Lexus IS350

Vehicle Type : Body Style : Power Train : NR

**Descriptive Information:** (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: OCT 02, 2017 - NOV 30, 2018

 Vehicle 26: 2018-2019 Lexus LC500h

Vehicle Type :
Body Style :
Power Train : NR

**Descriptive Information:** (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: OCT 06, 2017 - JAN 28, 2019

Vehicle 27: 2013-2015 Lexus LS460

Vehicle Type :
Body Style :
Power Train : NR

**Descriptive Information:** (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain

		-		easonable risk to safety. gn for these vehicles in t	· ·				
Production Dates :	to actually conta stall while driving production cond	Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.							
VIN Range 1:		NR	End:	NR	■ Not sequential				
Vehicle 28 : Vehicle Type : Body Style : Power Train :	2018-2019 Lext	us LS500h							
Descriptive Information :	(1) Although vehicles in this in (2) Based on to certain vehicle produced during contain fuel pure either (1) a pure impeller that was Vehicles with furconditions are in (3) Some hy However, with the vehicles will enter and reduced more distances. This conduct a custom Note: Unknown to actually contains a stall while driving the conduct of the condu	range were sold in Toyota's curre les with specific perior inps that were paper impeller of a les exposed to part included at the exception of the exception. Toyota is unable in the defect. Very at higher specific and the exception of the excep	l in the U. ent under fuel pun ds under roduced type with roduction were not p his time. e equippe LS500h iving mod which the nt an unre n campaig	re within the above pro S. restanding of the conditions supplied by Denso, or specific circumstances, with impellers of lower in lower surface strength a solvent drying for long produced under the aforemention and LC500h, if the condide, resulting in illuminate vehicle can still be drived as a still be	on, this recall applies containing impellers These vehicles density and contain or (2) a pump er periods of time. rementioned  med fuel pumps. ition occurs, these tion of warning lights en for certain Toyota intends to he future.  percentage of vehicles ill lead to a vehicle such as the specific				
<b>Production Dates :</b>	OCT 07, 2017 - J	AN 30, 2019							
VIN Range 1:	Begin :	NR	End:	NR	■ Not sequential				
Vehicle 29 : Vehicle Type : Body Style : Power Train : Descriptive Information :			vehicles a	re within the above pro	duction period, not all				
r	vehicles in this	range were sold	l in the U.		-				

to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.

(3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: SEP 14, 2017 - NOV 28, 2017

Vehicle 30: 2015-2015 Lexus RC350

Vehicle Type:
Body Style:

Power Train: NR

Descriptive Information: (1)

- (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- (2) Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- (3) Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

	Production Dates : VIN Range 1 :		4 - FEB 23, 201 NR	15 End:	NR	☐ Not sequential	
	Vehicle 31 : Vehicle Type : Body Style : Power Train :	2018-2019 L NR	exus RC350				
De	escriptive Information :						
	Production Dates : VIN Range 1 :	NOV 27, 201				hicle operating conditions.	
De		NR (1) Althovehicles in the (2) Based to certain velor produced du contain fuel peither (1) a pimpeller that Vehicles with conditions ar	exus RX350  ough the involution range were and on Toyota's chicles with specific poumps that we bump impeller was exposed a fuel pumps the not included	ved vehicles sold in the U current unde ecific fuel pu eriods unde ere produced of a type wi to production hat were not	are within to J.S. erstanding o mps supplie r specific cir d with impel th lower sur on solvent du t produced u	he above production period, not all of the condition, this recall applies and by Denso, containing impellers accumstances. These vehicles alers of lower density and contain afface strength or (2) a pump arying for longer periods of time. ander the aforementioned aforementioned fuel pumps.	

	vehicles wil and reduced distances. T	However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.							
Production Dates :	to actually of stall while d production	Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.							
VIN Range 1:		NR	End:	NR	☐ Not sequential				
Vehicle Type: Body Style: Power Train: Descriptive Information:	NR (1) Alth vehicles in t (2) Base to certain ve produced de contain fuel either (1) a impeller tha Vehicles wit conditions a (3) Som However, w vehicles wil and reduced distances. T conduct a cu  Note: Unknot to actually o stall while de	chis range were and on Toyota's chicles with spouring specific pumps that we pump impelled the fuel pumps of the fuel pumps of the hybrid mode of the exception	lved vehicles e sold in the U current under ecific fuel pu periods under ere produced r of a type will to production that were note els are equipp ion of LS500h afe driving me r in which the eresent an una action campa	J.S. erstanding of mps supplier specific circle with impellication to solvent draw produced under the produced under the interest of the issue interest on many part of the issue interest of the issue in part of the issue in t	he above production period, not all f the condition, this recall applies d by Denso, containing impellers cumstances. These vehicles lers of lower density and contain face strength or (2) a pumprying for longer periods of time. Inder the aforementioned aforementioned fuel pumps. The condition occurs, these is in illumination of warning lights in still be driven for certain risk to safety. Toyota intends to evehicles in the future.  I imate of the percentage of vehicles each case will lead to a vehicle my variables, such as the specific incle operating conditions.				
Production Dates :	_			01101 0110 7 01	nere operating containing.				
VIN Range 1:		NR	End:	NR	☐ Not sequential				
Vehicle 34 : Vehicle Type : Body Style : Power Train :		Toyota FJ Crui	ser		_				

Descriptive Information: (1)

- Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.
- Based on Toyota's current understanding of the condition, this recall applies to certain vehicles with specific fuel pumps supplied by Denso, containing impellers produced during specific periods under specific circumstances. These vehicles contain fuel pumps that were produced with impellers of lower density and contain either (1) a pump impeller of a type with lower surface strength or (2) a pump impeller that was exposed to production solvent drying for longer periods of time. Vehicles with fuel pumps that were not produced under the aforementioned conditions are not included at this time.
- Some hybrid models are equipped with the aforementioned fuel pumps. However, with the exception of LS500h and LC500h, if the condition occurs, these vehicles will enter a fail-safe driving mode, resulting in illumination of warning lights and reduced motive power in which the vehicle can still be driven for certain distances. This does not present an unreasonable risk to safety. Toyota intends to conduct a customer satisfaction campaign for these vehicles in the future.

Note: Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to a vehicle stall while driving at higher speeds depends on many variables, such as the specific production condition of fuel pump impeller and vehicle operating conditions.

Production Dates: SEP 02, 2013 - AUG 07, 2014

VIN Range 1: Begin: End: NR Not sequential

# **Description of Defect:**

Description of the Defect: The subject vehicles are equipped with a low-pressure fuel pump, located in the fuel tank, that supplies fuel pressure to the fuel injection system. These fuel pumps may include impellers which have been manufactured with lower density. If these impellers are also (1) of a type with lower surface strength or (2) of a different type but were exposed to production solvent drying for longer periods of time, higher levels of surface cracking may occur. In this condition, excessive fuel absorption may occur, resulting in increased impeller deformation. In some cases, the impeller may deform to a point that creates sufficient interference with the fuel pump body to cause the fuel pump to become inoperative. An inoperative fuel pump due to these conditions could result in illumination of check engine and master warning indicators, rough engine running, engine no start and/or vehicle stall while driving at low speed.

> However, in rare instances, vehicle stall could occur while driving at higher speeds, increasing the risk of a crash.

FMVSS 1: NR FMVSS 2: NR

Description of the Safety Risk: In this condition, excessive fuel absorption may occur, resulting in increased impeller deformation. In some cases, the impeller may deform to a point that creates sufficient interference with the fuel pump body to cause the fuel

pump to become inoperative. An inoperative fuel pump due to these conditions could result in illumination of check engine and master warning indicators, rough engine running, engine no start and/or vehicle stall while driving at low speed. However, in rare instances, vehicle stall could occur while driving at higher speeds, increasing the risk of a crash.

Description of the Cause: NR Identification of Any Warning NR that can Occur:

# **Supplier Identification:**

# Component Manufacturer

Name: Denso Corporation Address: 1-1, Showa-cho

Kariya-city, Aichi FOREIGN STATES 448-8661

Country: Japan

## **Chronology:**

Please see the attached Amended Part 573 Defect Information Report for the full chronology

### **Description of Remedy:**

Description of Remedy Program: All known owners of the affected Toyota and Lexus vehicles will be notified by first class mail to return their vehicles to a Toyota or Lexus dealer. Dealers will replace the fuel pump assembly with an improved one. The owner letter will instruct vehicle owners who have paid to have this condition remedied prior to this campaign to seek reimbursement pursuant to Toyota's General Reimbursement Plan.

Reimbursement Plan for pre-notification remedies:

The owner letter will instruct vehicle owners who have paid to have this condition remedied prior to this campaign to seek reimbursement pursuant to Toyota's General Reimbursement Plan.

from Recalled Component:

How Remedy Component Differs See attached Amended Part 573 Defect Information Report.

Identify How/When Recall Condition NR was Corrected in Production:

### **Recall Schedule:**

Description of Recall Schedule: Owners of vehicles currently included in the recall, that were not

included in the amendment on March 4, 2020, will be notified by May 18, 2020. Owners of vehicles included in the amendment on March 4, 2020, that were not included in the original recall population on January 13, 2020, will be notified by May 3, 2020. Owners of the vehicles that were originally covered by this recall (as filed on January 13) and are still covered by this recall, as amended, were notified by March 13, 2020. Notifications to distributors/dealers were sent by March 19, 2020. Copies of dealer communications will be submitted as they are issued.

Planned Dealer Notification Date : MAR 19, 2020 - MAR 19, 2020 Planned Owner Notification Date : MAR 13, 2020 - MAY 18, 2020

\* NR - Not Reported