OMB Control No.: 2127-0004

Part 573 Safety Recall Report

20V-012

Manufacturer Name: Toyota Motor Engineering & Manufacturing

Submission Date: MAR 04, 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: 1,817,969

Estimated percentage with defect: NR

Vehicle Information:

Vehicle 1: 2019-2019 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.

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 18, 2018 - JAN 18, 2019

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

Vehicle 2: 2013-2014 Lexus GS350

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 - JUL 29, 2014

Vehicle 3: 2014-2015 Toyota 4Runner

Vehicle Type : Body Style : Power Train : NR

- (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 custor	ner satisfactio	n campaign for th	ese vehicles in the	e future.
Production Dates :	to actually conta stall while driving production cond	nin the defect. ng at higher sp lition of fuel pu	Whether the issue eeds depends on a	estimate of the pe e in each case will many variables, su vehicle operating	ıch as the specific
VIN Range 1:		NR	End: NR		☐ Not sequential
Vehicle 4 : Vehicle Type : Body Style : Power Train :		ota Avalon			
Descriptive Information :	(1) Although vehicles in this r (2) Based or to certain vehicles produced during contain fuel puncither (1) a puncimpeller that was Vehicles with fur conditions are n (3) Some hy However, with the vehicles will entrand reduced modistances. This conduct a custon Note: Unknown to actually contains a contain while driving stall while driving the conduct of the conduc	range were solon Toyota's curres with specific period peri	d in the U.S. rent understanding fuel pumps supported under specific produced with important at type with lowers aroduction solvent were not produce this time. The equipped with a f LS500h and LC5 riving mode, result which the vehicle int an unreasonabin campaign for the ble to provide an Whether the issue eeds depends on a support of the control of	g of the condition, olied by Denso, corcircumstances. To pellers of lower desurface strength of the aforementione on the aforemention of the aforemention in illumination of the condition of the	ensity and contain or (2) a pump or periods of time. In mentioned ed fuel pumps. On occurs, these on of warning lights of or certain coyota intends to e future.
Production Dates :			- 1		
VIN Range 1:	Begin :	NR	End: NR		☐ Not sequential
Vehicle 5: Vehicle Type: Body Style: Power Train: Descriptive Information:	NR	v	vehicles are withi	n the above produ	ıction period, not all
	vehicles in this r	ange were sol	d in the U.S.	-	, 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: NOV 20, 2017 - FEB 14, 2019

Vehicle 6: 2018-2019 Toyota Corolla

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 19. 2017 -	FEB 08, 2019			
VIN Range 1:		NR	End: NR	☐ Not sequential	
Vehicle 7 : Vehicle Type : Body Style : Power Train :		ota Highlander			
Descriptive Information:					
Production Dates :	NOV 08, 2017 -	JUL 03, 2019			
VIN Range 1:	Begin:	NR	End: NR	☐ Not sequential	
Vehicle 8: Vehicle Type: Body Style: Power Train: Descriptive Information:	NR (1) Although vehicles in this (2) Based of to certain vehicles produced during contain fuel pure either (1) a pur impeller that when the source of the so	gh the involved verange were sold on Toyota's currectes with specific period mps that were period as exposed to prove to the period of a factorial contraction.	ehicles are within the a in the U.S. ent understanding of the fuel pumps supplied by ds under specific circum roduced with impellers type with lower surface yere not produced unde	above production period, not all e condition, this recall applies y Denso, containing impellers astances. These vehicles to f lower density and contain e strength or (2) a pump g for longer periods of time. er the aforementioned	

	(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 - M	IAR 11, 2015				
VIN Range 1:		NR	End:	NR	■ Not sequential	
Vehicle 9: Vehicle Type: Body Style: Power Train: Descriptive Information:	(1) Although vehicles in this r (2) Based or to certain vehicle produced during contain fuel purreither (1) a purreither (1) a purreither that was Vehicles with fue conditions are n (3) Some hy However, with the vehicles will enter and reduced modistances. This conditions are not conditions are not conditions are not conditions are not conditions.	a the involved vange were sold a Toyota's curre swith specific period aps that were period in the pumps that vot included at the exception of er a fail-safe drive power in wood to the power in wood on the pumps that we sold in the exception of the exception of the power in wood on the power in wood on the power in wood on the preservant in the preservant	in the Uent under fuel pure duced type wire oduction were not his time e equipput LS500h iving me which the an unit	erstanding of the condition of the condition of specific circumstances. I with impellers of lower of lower surface strength on solvent drying for long produced under the afor	on, this recall applies containing impellers These vehicles density and contain or (2) a pump ger periods of time. rementioned and fuel pumps. ition occurs, these tion of warning lights en for certain Toyota intends to	
Production Dates :	to actually conta stall while drivir production cond	in the defect. \ ng at higher spe lition of fuel pu	Vhether eds dep	ovide an estimate of the the issue in each case w ends on many variables, eller and vehicle operation	ill lead to a vehicle such as the specific	
Production Dates : VIN Range 1 :		NR	End:	NR	☐ Not sequential	
Vehicle 10 : Vehicle Type :	2017-2019 Toyo	ota Sienna				

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: NOV 08, 2017 - FEB 11, 2019

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

Vehicle 11: 2018-2019 Toyota Tacoma

Vehicle Type :
Body Style :
Power Train : NR

- (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 driving production cond NOV 07, 2017 - I	nin the defect. Vang at higher spe lition of fuel pu	ole to provide an estim Whether the issue in ea eds depends on many mp impeller and vehic End: NR	ach case will l variables, su	lead to a vehicle ch as the specific
Vehicle 12 : Vehicle Type : Body Style : Power Train :		ota Tundra			
Descriptive Information :	(1) Although vehicles in this recording to certain vehicle produced during contain fuel pure either (1) a pure impeller that was Vehicles with fure conditions are recording to the conditions	range were sold a Toyota's curres with specific grape that were purposed to present the exception of the exception. Toyota is unation the defect. Toyota is unation the defect.	ent understanding of the fuel pumps supplied be ds under specific circul roduced with impeller type with lower surfac roduction solvent dryin vere not produced und	he condition, by Denso, constances. The sof lower dece strength or ng for longer ler the aforementioned if the condition illumination it to safety. The chicles in the late of the pendich case will levariables, su	this recall applies nataining impellers nese vehicles ensity and contain r (2) a pump periods of time. mentioned d fuel pumps. On occurs, these on of warning lights for certain oyota intends to future.
Production Dates : VIN Range 1 :		FEB 06, 2019 NR	End: NR		☐ Not sequential
Vehicle 13: Vehicle Type: Body Style: Power Train: Descriptive Information:	NR (1) Although vehicles in this in	n the involved v	rehicles are within the l in the U.S. ent understanding of th	_	-

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: APR 02, 2018 - MAY 06, 2019

Vehicle 14: 2018-2018 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.
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	production conc	intion of fuel pu	inp impener and venicle of	berating conditions.	
Production Dates :	ОСТ 13, 2017 - I	DEC 06, 2017			
VIN Range 1:	Begin:	NR	End: NR	☐ Not sequential	
Vehicle Type : Body Style : Power Train :					
Descriptive Information :	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 :			End: NR	☐ Not sequential	
				1	
Vehicle Type : Body Style :	2018-2019 Lexu	ıs IS300			
Power Train:					
Descriptive Information :	vehicles in this r (2) Based or to certain vehicl produced during contain fuel pun either (1) a pum	range were sold n Toyota's curre es with specific g specific period nps that were p up impeller of a	in the U.S. ont understanding of the co- fuel pumps supplied by De ls under specific circumsta	lower density and contain rength or (2) a pump	
The i	nformation containe	ed in this report w	as submitted pursuant to 49 Cl	FR §573	

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.

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

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

Vehicle 17: 2018-2019 Lexus LC500

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.
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Production Dates: OCT 06, 2017 - JAN 31, 2019

 Vehicle 18: 2018-2019 Lexus LS500

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.
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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 30, 2017 - JAN 31, 2019

Vehicle 19: 2014-2015 Lexus LX570

Vehicle Type :
Body Style :
Power Train : NR

- (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

		-	resent an unreasonable ri action campaign for these	isk to safety. Toyota intends to 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:	Begin:	NR	End: NR	☐ Not sequential				
Vehicle 20 : Vehicle Type : Body Style : Power Train :		xus NX200t						
Descriptive Information:	vehicles in this (2) Based of to certain vehicles with from the produced during contain fuel puring either (1) a puring either (1) a puring either (1) a puring either (1) a puring either (3). Some from the conditions are (3) Some from the conditions will enand reduced many distances. This conduct a custom to actually constall while driven.	range were on Toyota's cles with sping specific pumps that with many impeller was exposed fuel pumps to include the exception of a fail-satiotive power satisfant. Toyota is tain the defining at higher	e sold in the U.S. current understanding of ecific fuel pumps supplied periods under specific circlere produced with impelled of a type with lower surfact to production solvent drythat were not produced und at this time. Els are equipped with the alon of LS500h and LC500h and LC500h and the driving mode, resulting in which the vehicle can resent an unreasonable rinction campaign for these sunable to provide an esticet. Whether the issue in eaction.	aforementioned fuel pumps. a, if the condition occurs, these g in illumination of warning lights still be driven for certain isk to safety. Toyota intends to vehicles in the future. mate of the percentage of vehicles each case will lead to a vehicle my variables, such as the specific				
Production Dates :	-			of				
VIN Range 1:		NR	End: NR	□ Not sequential				
viiv kange 1:	Degiii .		EHU. NK	☐ Not sequential				
Vehicle Type : Body Style : Power Train :	NR							
Descriptive Information :	vehicles in this	range were	e sold in the U.S.	te above production period, not all 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.

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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: NOV 27, 2017 - JAN 31, 2019

Vehicle 22: 2018-2019 Lexus GS350

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

		10.0			1			
	production condition of fuel pump impeller and vehicle operating conditions.							
Production Dates	: OCT 03, 2017 -	-JAN 31, 201	9					
VIN Range 1	: Begin :	NR	End: NR		■ Not sequential			
	: 2014-2014 Lex	xus IS-F						
Vehicle Type								
Body Style : Power Train :								
Descriptive Information		gh the invol	ved vehicles are with	nin the above prod	luction period, not all			
Descriptive information			sold in the U.S.	in the above prod	duction period, not un			
	(2) Based	on Toyota's	current understandi	O				
			ecific fuel pumps sup eriods under specific					
	•	0 1	ere produced with in					
	either (1) a pu	mp impeller	of a type with lower	surface strength	or (2) a pump			
			to production solver					
			hat were not produc	ed under the afore	ementioned			
		conditions are not included at this time.(3) Some hybrid models are equipped with the aforementioned fuel pumps.						
	However, with	However, with the exception of LS500h and LC500h, if the condition occurs, these						
			fe driving mode, resu in which the vehicle		ion of warning lights			
			resent an unreasonal					
		-	ction campaign for t	•	· ·			
	Note: Unknow	n. Tovota is	unable to provide ar	n estimate of the p	ercentage of vehicles			
	to actually con	tain the defe	ect. Whether the issu	ie in each case wil	ll lead to a vehicle			
		0	r speeds depends on	•	-			
	production coi	ndition of fu	el pump impeller and	d vehicle operating	g conditions.			
Production Dates	SEP 10, 2013 -	JUL 24, 201	4					
VIN Range 1	: Begin :	NR	End: NR		■ Not sequential			
V.l1. 04	0017 0017 1	TCOOO4						
Vehicle Type	: 2017-2017 Lex	xus iszuut						
Body Style								
Power Train								
Descriptive Information	: (1) Althou	gh the invol	ved vehicles are with	nin the above prod	luction period, not all			
P	, ,	_	sold in the U.S.	P	r			
		•	current understandi	O				
		-	ecific fuel pumps sup eriods under specific	2	0 1			
	-	· -	ere produced with in					
	either (1) a pu	mp impeller	of a type with lower	surface strength	or (2) a pump			
	impeller that v	vas exposed	to production solver	nt drying for longe	er 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 - OCT 02, 2017

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

Vehicle 25: 2014-2015 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: SEP 02, 2013 - FEB 21, 2015

 Vehicle 26: 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 27: 2018-2019 Lexus LC500h

Vehicle Type :
Body Style :
Power Train : NR

Tower Train. Nic

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 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 co stall while dr	ntain the defe iving at highe	ect. Whether the issue r speeds depends on m	stimate of the percentage of vehicles in each case will lead to a vehicle any variables, such as the specific rehicle operating conditions.			
Production Dates:	OCT 06, 2017	' -JAN 28, 201	9				
VIN Range 1:	Begin:	NR	End: NR	☐ Not sequential			
Vehicle 28: Vehicle Type: Body Style: Power Train: Descriptive Information:			ved vehicles are within	the above production period, not all			
	vehicles in the (2) Based to certain vehicles dured dured to contain fuel produced dured to the conditions are (3) Some However, with vehicles will conduct a customatic distances. The conduct a customatic dured to actually costall while dripproduction contains and reduced to actually costall while dripproduct	is range were a lon Toyota's nicles with specific poumps that we ump impeller was exposed a fuel pumps the not included hybrid mode the exception does not postomer satisfation. Toyota is ntain the defeiving at higher and toyon of fuel pumps to the exception of	sold in the U.S. current understanding ecific fuel pumps suppleriods under specific cere produced with import of a type with lower supplementation solvent of the produced did at this time. Its are equipped with the proof of LS500h and LC50 feed riving mode, result in which the vehicle ceresent an unreasonable ction campaign for the unable to provide an exect. Whether the issue in speeds depends on mel pump impeller and versions.	of the condition, this recall applies ied by Denso, containing impellers ircumstances. These vehicles ellers of lower density and contain arface strength or (2) a pump drying for longer periods of time. under the aforementioned under the aforementioned of the pumps. Oh, if the condition occurs, these ing in illumination of warning lights an still be driven for certain exist to safety. Toyota intends to se vehicles in the future.			
Production Dates:				Mat as an anti-l			
VIN Range 1:	begin:	NR	End: NR	☐ Not sequential			
Vehicle Type : Body Style : Power Train :			vad vahiclas ara within	the above production period, not all			
Descriptive Information :			sold in the U.S.	the above production period, not all			

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.

End: NR

Production Dates: APR 15, 2014 - FEB 23, 2015

NR

Vehicle 30: 2018-2019 Lexus RC350

Vehicle Type :
Body Style :

Power Train: NR

VIN Range 1: Begin:

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 con	dition of fuel pu	mp imp	eller and vehi	cle operating conditions.
Production Dates :	NOV 27, 2017 -	JAN 31, 2019			
VIN Range 1:	Begin:	NR	End:	NR	☐ Not sequential
	2017-2019 Lex	us RX350			
Vehicle Type :					
Body Style :					
Power Train:					
Descriptive Information:	nformation: (1) Although the involved vehicles are within the above production period, not a 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 light 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 vehicle to actually contain the defect. Whether the issue in each case will lead to a vehicle				
					y variables, such as the specific cle operating conditions.
Production Dates :	-	•	Y	and the	or sporading conditions.
VIN Range 1:		NR	End:	NR	☐ Not sequential
Vehicle Type : Body Style :	2013-2015 Lex	us LS460			
Power Train:		h +h o : 1 1	اه ځاه .	الداداليات عاليات	ahara madratian matalana 1
Descriptive Information :	vehicles in this (2) Based o to certain vehic produced durin contain fuel pur either (1) a pun impeller that wa	range were solo n Toyota's curr les with specific g specific perio nps that were p np impeller of a as exposed to p nel pumps that were	I in the Uent under the fuel pureds under produced type wir roduction were not	J.S. Perstanding of to the supplied of the su	the condition, this recall applies by Denso, containing impellers imstances. These vehicles rs of lower density and contain ace strength or (2) a pumping for longer periods of time. der the aforementioned

	(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:		NR	End: NR	☐ Not sequential
Vehicle 33: Vehicle Type: Body Style: Power Train: Descriptive Information:	NR (1) Although vehicles in this reconstruction (2) Based on to certain vehicle produced during contain fuel pure either (1) a pure impeller that was Vehicles with furconditions are reconstructions (3) Some hy However, with the vehicles will enter and reduced more distances. This conduct a custom Note: Unknown to actually contains the stall while driving stall while driving the conduct of the stall while driving the stall while drivin	th the involved range were solon Toyota's curred specific period appears that were partially and the exception of the exception. Toyota is unation the defect.	d in the U.S. rent understanding of fuel pumps supplieds under specific circle or duced with imperative with lower subroduction solvent diverse not produced with the fLS500h and LC500 riving mode, resulting which the vehicle cant an unreasonable in campaign for these whether the issue in eeds depends on ma	che above production period, not all of the condition, this recall applies ed by Denso, containing impellers recumstances. These vehicles llers of lower density and contain rface strength or (2) a pump rying for longer periods of time. under the aforementioned e aforementioned fuel pumps. Oh, if the condition occurs, these ag in illumination of warning lights in still be driven for certain risk to safety. Toyota intends to e vehicles in the future. timate of the percentage of vehicles in each case will lead to a vehicle any variables, such as the specific chicle operating conditions.
Production Dates:			E. I. MD	
VIN Range 1:	Begin:	NR	End: NR	☐ Not sequential
Vehicle 34 : Vehicle Type : Body Style :		ıs RX350L		

Not sequential

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.
- Based on Toyota's current understanding of the condition, this recall applies (2)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.

End: NR

Production Dates: DEC 04, 2017 - MAY 08, 2019

Vehicle 35: 2014-2014 Toyota FJ Cruiser

NR

Vehicle Type: **Body Style:** Power Train: NR

VIN Range 1 : Begin :

- 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 : NR 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.

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

from Recalled Component:

IT :

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 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, will be notified by March 13, 2020. Notifications to distributors/dealers were sent on March 3, 2020. Copies of dealer

communications will be submitted as they are issued.

Planned Dealer Notification Date : MAR 03, 2020 - MAR 03, 2020

Planned Owner Notification Date: MAR 13, 2020 - MAY 03, 2020

^{*} NR - Not Reported