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December 4, 2020

Via E-mail and FedEx

James C. Owens Deputy Administrator National Highway Traffic Safety Administration 1200 New Jersey Avenue, S.E. West Building Washington, D.C. 20590

Re: Petition for Determination of Inconsequential Noncompliance:

Dear Mr. Owens:

On behalf of Sumitomo Rubber Industries, Ltd. (SRI) and Sumitomo Rubber North America Inc. (SRNA), we are submitting the enclosed public version of the Petition for Determination of Inconsequential Noncompliance pursuant to 49 U.S.C. §§ 30118(d) and 30120(h) and 49 C.F.R. §§ 556.1-556.9, for an exemption from the notice and remedy requirements, on the ground that the noncompliance to which this petition relates is inconsequential to motor vehicle safety. The confidential version of the petition is being submitted to the Office of the Chief Counsel with a request for confidential treatment.

BOSTON BRUSSELS CHICAGO DETROIT JACKSONVILLE LOS ANGELES MADISON MIAMI

MILWAUKEE NEW YORK ORLANDO SACRAMENTO SAN DIEGO SAN FRANCISCO SHANGHAI SILICON VALLEY TALLAHASSEE TAMPA TOKYO WASHINGTON, D.C.

Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc. Petition for Determination of Inconsequential Noncompliance NHTSA No. 20T020

December 4, 2020

Sumitomo Rubber Industries, Ltd. (SRI) and Sumitomo Rubber North America Inc. (SRNA) jointly submit this Petition for Determination of Inconsequential Noncompliance pursuant to the National Traffic and Motor Vehicle Safety Act (Safety Act), 49 U.S.C. §§ 30118(d) and 30120(h) and 49 C.F.R. Part 556, for an exemption from the notice and remedy requirements of 49 U.S.C. §§ 30118 and 30120, on the ground that the noncompliance to which this petition relates is inconsequential to motor vehicle safety.

I. Background

Sumitomo Rubber Industries, Ltd. is a Japanese corporation with its office at 6-9, 3-chome, Wakinohama-cho, Chuo-ku, Kobe 651-0072 Japan. Sumitomo Rubber North America Inc. is a California corporation with its office at 8656 Haven Avenue, Rancho Cucamonga, CA 91730.

On November 4, 2020, SRI determined that a population of 8,275 Sumitomo and Falken truck tires do not comply with Federal Motor Vehicle Safety Standard (FMVSS) No. 119, *New pneumatic tires for motor vehicles with a GVWR of more than 4,536 kilograms (10,000 pounds) and motorcycles. See* Exhibit No. 1 (SRI 573 Noncompliance Report) (the report includes the full list of 26 different tire models and sizes covered by this petition). Specifically, the subject tires may have a small visual deformation after completing the endurance test specified in FMVSS 119 S7.2. The presence of this visual deformation following completion of the test may constitute a nonconformity with FMVSS 119 S6.1.2(a), which specifies that "[t]here shall be no visual evidence of tread, sidewall, ply, cord, innerliner, or bead separation, chunking, broken cords, cracking, or open splices." This matter has been assigned NHTSA Recall No. 20T020.

II. Discussion

Under the Safety Act, each FMVSS promulgated by the National Highway Traffic Safety Administration (NHTSA) must be "practicable, meet the need for motor vehicle safety, and be stated in objective terms." 49 U.S.C. § 30111(a). The Safety Act defines "motor vehicle safety" as:

the performance of a motor vehicle or motor vehicle equipment in a way that protects the public against unreasonable risk of accidents occurring because of the design, construction, or performance of a motor vehicle, and against unreasonable risk of death or injury in an accident, and includes nonoperational safety of a motor vehicle.

49 U.S.C. § 30102(a)(9).

The Safety Act exempts manufacturers from the Safety Act's notice and remedy requirements when NHTSA determines that a noncompliance is inconsequential as it relates to motor vehicle safety. *See* 49 U.S.C. §§ 30118(d) and 30120(h). Sections 30118(d) and 30120(h) demonstrate Congress's acknowledgement that there are cases where a vehicle or equipment may fail to meet the requirements of a safety standard, yet the impact on motor vehicle safety is so slight that an exemption from the notice and remedy requirements of the Safety Act is justified.

NHTSA has stated that in determining the question of inconsequentiality "the issue to consider is the consequence to an occupant who is exposed to the consequence of that noncompliance." General Motors, LLC, Denial of Petition for Decision of Inconsequential Noncompliance, 85 Fed. Reg. 71713, 71716 (Nov. 10, 2020); see also General Motors Corp.; Ruling on Petition for Determination of Inconsequential Noncompliance, 69 Fed. Reg. 19897, 19900 (Apr. 14, 2004) (the relevant consideration in evaluating an inconsequentiality petition is "whether an occupant who is affected by the noncompliance is likely to be exposed to a significantly greater risk than an occupant in a compliance, 64 Fed. Reg. 29408, 29409 (Jun. 1, 1999). In evaluating the effect on motor vehicle safety, NHTSA looks to the "specific facts before it in a particular petition." BMW of North America, LLC; Jaguar Land Rover North America, LLC; and Autoliv, Inc.; Decisions of Petitions for Inconsequential Noncompliance, 84 Fed. Reg. 19994, 19997 (May 7, 2019) (citing General Motors, LLC., Grant of Petition for Decision of Inconsequential Noncompliance, 84 Fed. Reg. 19994, 19997 (May 7, 2019) (citing General Motors, LLC., 0, 2016)).

-- Regulatory History of the Visual Inspection Criteria

Under FMVSS 119 S6.1.2(a), tires completing the tire endurance test may not have "visual evidence of tread, sidewall, ply, cord, innerliner, or bead separation, chunking, broken cords, cracking, or open splices." The visual inspection requirements were adopted in the original version of FMVSS 119, which carried over a similar requirement from FMVSS 109 applicable to tires intended for passenger vehicles. *See* 38 *Fed. Reg.* 31299, 31301 (Nov. 13, 1973). Although FMVSS 119 does not define "bead separation," FMVSS 109 S3 defines bead separation as "a breakdown of bond between components in the bead." In turn, FMVSS 109 S3 defines "bead" as "the part of the tire made of steel wires, wrapped or reinforced by ply cords, that is shaped to fit the rim." The definition of bead separation and the visual inspection requirement for the endurance test were promulgated by NHTSA in its initial final rule for FMVSS 109. *See* 32 Fed. Reg. 15792, 15792-93 (Nov. 16, 1967) (Initial Final Rule for FMVSS 109).¹

NHTSA based the performance requirements of FMVSS 109 on SAE Recommended Practice J918b, "*Passenger Car Tire Performance Requirements and Test Procedures*," December 1966. 32 Fed. Reg. 10812 (Jul. 22, 1967) (the 1967 Amended NPRM for FMVSS 109). The Agency adopted the SAE recommended practice without justifying the safety impacts of the provisions or discussing the purpose for the visual inspection requirement. *See id.* In a later amendment to FMVSS 109, NHTSA explained that it considered the visual inspection of these

¹ In its notice of proposed rulemaking (NPRM) for adoption of the initial Federal Motor Vehicle Safety Standards in 1966, NHTSA had proposed requiring that tires completing the endurance test pass a visual inspection. *See* 31 Fed. Reg. 15212, 15216 (Dec. 3, 1966) (proposing a number of safety standards, including FMVSS 109). That proposal read: "After completing the tests specified in S5.1 at the applicable percentages of the rated load selected by the manufacturer, no tire shall have – (a) Tread, ply, cord, or bead separation; (b) Tread chunking; (c) Broken cord; or (d) A cut exceeding five times the length of the original cut made for the test." 31 Fed. Reg. at 15216. The 1966 proposal did not define bead separation, nor did it provide the Agency's purpose for including this requirement.

characteristics "to be evidence of structural weakness which may cause tire failure." See 37 Fed. Reg. 19381 (Sep. 20, 1972) (1972 NPRM Amending FMVSS 109).

NHTSA's statement in the 1972 NPRM Amending FMVSS 109 did not present any further explanation or evidence to support the notion that these characteristics, standing alone, are evidence of structural weakness that could lead to a tire failure. The brief discussion acknowledges that these visual characteristics *may* indicate a weakness that could result in a tire failure. But this evidence does not, by itself, demonstrate that the tire contains a structural weakness that will cause it to fail or to expose occupants of vehicles equipped with these tires to a consequential safety risk that occupants of a vehicle equipped with fully compliant tires would not face.

-- <u>The Deformation in the Subject Tires Does Not Affect Structural Integrity</u>

As described in its Part 573 noncompliance report, SRI discovered that a population of truck and bus radial tires may be susceptible to developing a visible deformation in a single, small area of the bead near the upper edge of a rim flange. This visual deformation does not indicate a structural weakness in the subject tires, and SRI's test data demonstrates that the deformation is not likely to expose an occupant of a vehicle equipped with such tires to a significantly greater risk than an occupant of a vehicle equipped with a fully compliant tire.

With respect to the structure of the tire, the deformation results from two factors related to the tire's joint tape: misplacement of the joint tape and a change in the tape's composition that altered the rubber's adhesiveness. Because joint tape is not a structural component of the tire, the resulting deformation is not an indication of a structural weakness in these tires. Moreover, the deformation induced by the joint tape does not affect the integrity of the adjacent components.

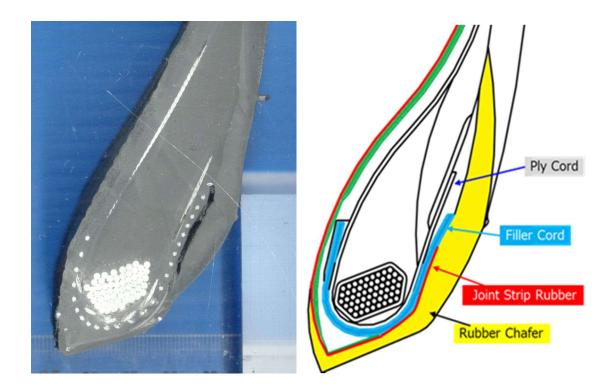
In manufacturing tires, SRI produces long strips of material that make up the inner liner. The inner liner is the inner-most component of the tire. During the tire-building process, the inner liner ends are joined together with an adhesive material (i.e., joint tape). Other components are then added on top of the inner liner. After all components are added, the built tire undergoes vulcanization (applying heat and pressure for a set period) to fully adhere the components and complete the tire-forming process. The joint tape's purpose is simply to keep the ends of the inner liner liner together during the tire-building process until the assemblage is vulcanized.

Due to misplacement of the joint tape and a change in the tape's composition, the subject tires may develop a visible deformation in the bead area near the edge of the rim flange. The following is a photograph of a test tire built with the misplaced joint tape following the FMVSS 119 Endurance test:



The deformation is to the left of the white line marked on the tire in the photograph. As the photograph shows, this small deformation appears on the surface of the tire near the rim.

The following photograph shows the same tire, but with a cross-section through the deformation, followed by a diagram to highlight the components:



In this image, the tire's sidewall is on the right-hand side. The tire's bead core (made of several layers of steel cord bundled closely together) is enveloped by a separate layer of steel cords that is depicted by the J-shape of small white dots (also known as the filler cord). The deformation is the separation between the joint strip rubber and the rubber chafer (which serves as the outer layer of the tire). As the photograph demonstrates, the deformation occurs outside the structural components of the tire (*i.e.*, it forms to the right of the filler cord).

The deformation forms due to a lack of adhesion between the joint tape and components in the bead area, which can increase the percentage of butyl rubber content in this area. The increased butyl rubber content makes the material more susceptible to heat expansion and, combined with the lack of adhesion in the joint tape, the small area becomes susceptible to separations. Because the joint tape terminates in the bead area, the deformation will only occur there. The steel filler cords next to this area contain the deformation and prevent it from propagating beyond the area shown in the photographs. SRI's testing demonstrates that this deformation does not indicate, and will not subsequently cause, a structural weakness that could lead to a tire failure or rapid air loss.

SRI conducted a series of three tests to confirm the structural integrity of the subject tires. In one test (Test 1), SRI tested a tire returned by a Japanese customer due to the appearance of a deformation near the bead.² The returned tire was a Dunlop 275/80R22.5 SP680 that the customer used for an unknown number of miles. For this test, SRI inflated the tire to 100% of the JATMA-recommended inflation pressure for its maximum load (900 kPa or approximately 130 psi) and loaded the tire to 100% of its maximum load carrying capacity (3450 kg). SRI ran the tire on a test drum at 80 km/h for 1,250 hours (approximately 100,000 km or just over 62,000 miles). The deformation near the bead did not expand (it measured 40 mm before the test and 40 mm after the test) or cause air loss, and the tire did not otherwise fail during the testing. *See* Exhibit No. 2 (SRI Test Summaries).

For the second test (Test 2), SRI manufactured a test tire using intentionally misplaced joint tape composed of the same material as the tires listed in the noncompliance report.³ Test 2 seeks to take the tire to failure while it is underinflated (at 67% of the recommended inflation pressure) and overloaded (at 120% of the tire's maximum load carrying capacity). As of the filing of this petition, the tire has completed three of the four test phases. In Phase One, SRI ran the tire on the test drum at 50 km/h for 520 hours. In Phase Two, SRI increased the speed to 60 km/h and ran the tire for 285 hours. In Phase Three, SRI increased the speed to 65 km/h and ran the tire for 190 hours. The tire developed a deformation as expected. Despite being underinflated and overloaded, the tire deformation did not cause air loss or otherwise cause the tire to fail. *See* Exhibit No. 2. SRI is currently conducting Phase Four of the Test 2, which is running the tire at 70 km/h. As of December 3, 2020 the tire had run approximately 57,365 km (approximately 35,645 miles). SRI is running the tire to failure and will provide NHTSA with the results in a supplement to this petition.

In a third test (Test 3), SRI manufactured two tires (Dunlop 295/80R22.5 SP128A) with intentionally misplaced joint tape to test the tires in three severely overloaded conditions.⁴ In Phase One, the tires were inflated to kPa (approximately psi), loaded to % of the maximum load carrying capacity, and run on a test drum at 20 km/h (approximately 12 mph) for hours. In Phase Two, the tires were inflated to kPa (approximately psi), loaded to % of the maximum load capacity, and run on a test drum at 20 km/h for hours. In Phase Three, the tires were inflated to 1050 kPa (approximately 152 psi), loaded to 300% of the load carrying capacity, and run on a test drum at 20 km/h for hours. In Phase Three, the tires were inflated to 1050 kPa (approximately 152 psi), loaded to 300% of the load carrying capacity, and run on a test drum at 20 km/h for 108 hours. In total, the tires ran hours, covering km (approximately miles) in severely overload conditions that are unlikely to be replicated in real world use. During the testing, the tires developed deformations, as expected, near the bead in the area where the misplaced joint tape was applied. In the most extreme condition (loaded to 300% of the tire's maximum load carrying capacity), the tires also developed a surface crack in the area of the misplaced joint tape. But even in these unrealistically severe conditions, the tire did not develop air leaks or otherwise structurally fail. *See* Exhibit No. 2.

 $^{^{2}}$ The Japanese-market tire returned by the customer contained the same manufacturing defect – misplaced joint tape that was composed of the same material as the tires covered by the noncompliance report.

³ SRI manufactured the test tire based on a Japanese-market tire model and size. The test tire replicates the misplaced joint tape and is representative of the subject tires for purposes of evaluating the joint tape/deformation issue.

⁴ The test tires used in Test 3 are based upon a Japanese-market model and size, but are representative of the subject tires for purposes of this evaluation.

In addition to these three tests, SRI also manufactured four test tires (two for each)⁵ with misplaced joint tape to conduct the endurance tests in FMVSS 119 and UNECE R54.⁶ In both tests, the tires developed deformations, but otherwise met the substantive performance requirements. *See* Exhibit No. 3 (FMVSS 119 Endurance Test) and Exhibit No. 4 (UNECE R54 Endurance Test). A summary of the three internal tests and the FMVSS 119 and UNECE R54 tests are provided in Exhibit No. 5 (Table Summarizing Testing).

III. Conclusion

SRI's testing demonstrates that the deformations that may form due to the misplaced joint tape are not indicative of a structural weakness and will not cause air loss. Because the tires maintain their structural integrity and air pressure, SRI believes that the deformations are inconsequential to motor vehicle safety. The tires otherwise meet all of the labeling and performance requirements of FMVSS 119. Moreover, SRI is not aware of any tire failures, air loss, crashes or injuries related to this issue.

Accordingly, SRI respectfully requests that NHTSA exempt SRI and SRNA from the notice and remedy requirements of the Safety Act.

Respectfully submitted,

Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc.

Encl. (Exhibit Nos. 1 through 5)

⁵ These test tires were also based on Japanese-market tires, but are representative of the subject tires for purposes of this evaluation.

⁶ SRI notes that the UNECE R54 endurance test requirements do not include bead separation as part of the failure criteria for visual inspections. R54 paragraph 6.2.2 states: "A tyre which, after undergoing the endurance test, does not exhibit any tread separation, ply separation, cord separation, chunking or broken cords shall be deemed to have passed the test." SRI believes that by not including bead separation in this criteria, UNECE R54 supports the position that visual evidence of bead separation by itself does not indicate a consequential risk to motor vehicle safety.

EXHIBIT NO. 1



Sumitomo Rubber Industries, Ltd.

Tire Report

Manufactures: Cumiters Dubles 7		
Manufacturer: Sumitomo Rubber I	ndustries, Ltd.	
9,3-Chome, bbe 00 651-0072		<u>Nick Englund</u> Outside Counsel for 202-295-4792,
Т	his is a Safety Defect Repo	ort. Filing a petition pursuant to <u>49 CFR 556</u>
Tire Information		
Sumitomo ST900 11R24.5 16PR		
* Tire Brand: Sumitomo		Descriptive Information:
* Tire Line: ST900		The recall population for this tire line and size is 88. The population is base
* Tire Size: 11R24.5 16PR		upon production and shipping records.
Production Dates Begin: 03/01/2020 End: 03/07/2020		
re Identification Number (TIN)		
* Plant ID code: * Size code:	Optional code:	* Beg. Date Code: * End. Date Code: U2
4F 6XAW	0920	0920
Falken RI151S 315/80R22.5 156/15	JL	
* Tire Brand: Falken		Descriptive Information:
* Tire Line: RI151S		The recall population for this tire line and size is 140. The population is based upon production and shipping records.
* Tire Size: 315/80R22.5 156/150L		
Production Dates Begin: 05/24/2020)	
End: 05/30/2020)	
ire Identification Number (TIN)		
* Plant ID code: * Size code:	Optional code:	* Beg. Date Code: * End. Date Code: V4
4D 8XYW	2120	2120
Sumitomo ST528 11R22.5 16PR		
* Tire Brand: Sumitomo		Descriptive Information:
* Tire Line: ST528		The recall population for this tire line and size is 381. The population is based upon production and shipping records.
* Tire Size: 11R22.5 16PR		
Production Dates Begin: 03/15/2020)	
End: 04/25/2020		
re Identification Number (TIN)	Optional code:	* Beg. Date Code: * End. Date Code: U2
ire Identification Number (TIN) * Plant ID code: * Size code:		1120
	1120	1120
* Plant ID code: * Size code:	1120 6XJW	1520 1620
* Plant ID code: * Size code: 3T 6XJW U2 3T	6XJW	
* Plant ID code: * Size code: 3T 6XJW	6XJW	
3T 6XJW U2 3T	6XJW	

Production Dates	Begin: 03/08/2020 End: 03/21/2020				
Tire Identification Number ((TIN)				
* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
3T	5X8W	1020	1120		
Sumitomo ST710S	E 285/75R24.5 144/	141L			
* Tire Brand: Sumitor	mo		Descriptive Inf		
* Tire Line: ST7105	Ε			tion for this tire line and size is uction and shipping records	160. The population is
* Tire Size: 285/75	R24.5 144/141L				
Production Dates	Begin: 02/23/2020 End: 03/14/2020				
Tire Identification Number (
* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
BP U2	5X8W BP	0820 5X8W	0820 1020	1020	
02	DP	27916	1020	1020	
Sumitomo ST7105	E 11R24.5 146/143L				
* Tire Brand: Sumitor			Descriptive Inf The recall popula	ormation: tion for this tire line and size is	81. The population is based
* Tire Line: ST710S * Tire Size: 11R24.				and shipping records	- p.p.
	5 110/ 115L				
Production Dates	Begin: 01/26/2020 End: 02/08/2020				
Tire Identification Number (* Plant ID code: 4F	(TIN) * Size code: 5X8W	Optional code: 0420	* Beg. Date Code: 0520	* End. Date Code:	U2
Sumitomo ST778-	-SE 285/75R24.5 144	/141L			
* Tire Brand: Sumitor	mo		Descriptive Inf		
* Tire Line: ST778-	-SE			tion for this tire line and size is uction and shipping records.	118. The population is
* Tire Size: 285/75	R24.5 144/141L		based upon prod	uction and shipping records.	
Production Dates	Begin: 01/26/2020 End: 02/29/2020				
Tire Identification Number ((111)				
* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
BP	5X1W	0420	0420		
U2	BP	5X1W	0820	0820	
Sumitomo ST778-	SE 11R24.5 149/146	L			
* Tire Brand: Sumitor * Tire Line: ST778+ * Tire Size: 11R24.	-SE			ormation: tion for this tire line and size is uction and shipping records	221. The population is
Production Dates	Begin: 01/26/2020 End: 02/08/2020				
Tire Identification Number (* Plant ID code: 4F	(TIN) * Size code: 6X1W	Optional code: 0420	* Beg. Date Code: 0520	* End. Date Code:	U2

Sumitomo ST709SE 285/75R24.5 144/2	141L			
 * Tire Brand: Sumitomo * Tire Line: ST709SE * Tire Size: 285/75R24.5 144/141L 			ormation: tion for this tire line and size i and shipping records.	s 27. The population is based
Production Dates Begin: 01/26/2020 End: 02/01/2020				
Tire Identification Number (TIN) * Plant ID code: * Size code: BP 5X8W	Optional code: 420	* Beg. Date Code: 420	* End. Date Code:	U2
Sumitomo ST709SE 11R24.5 149/146L * Tire Brand: Sumitomo * Tire Line: ST709SE * Tire Size: 11R24.5 149/146L			ormation: tion for this tire line and size i uction and shipping records.	s 440. The population is
Production Dates Begin: 02/09/2020 End: 02/15/2020				
Tire Identification Number (TIN) * Plant ID code: 4F 6X8W	Optional code: 0620	* Beg. Date Code: 0620	* End. Date Code:	U2
Sumitomo ST908N 11R22.5 146/144L				
* Tire Brand: Sumitomo * Tire Line: ST908N * Tire Size: 11R22.5 146/144L Production Dates Begin: 04/05/2020 End: 04/11/2020			ormation: tion for this tire line and size i and shipping records.	s 68. The population is based
Tire Identification Number (TIN) * Plant ID code: * Size code: 3T 6X3W	Optional code: 1420	* Beg. Date Code: 1420	* End. Date Code:	U2
Sumitomo ST788SE 11R22.5 146/143L				
 * Tire Brand: Sumitomo * Tire Line: ST788SE * Tire Size: 11R22.5 146/143L Production Dates Begin: 02/16/2020 End: 03/14/2020 			ormation: tion for this tire line and size i uction and shipping records.	s 1,067. The population is
Tire Identification Number (TIN) * Plant ID code: * Size code: 3T 6XFW	Optional code: 0720	* Beg. Date Code: 1020	* End. Date Code:	U2
Sumitomo ST788SE 11R24.5 149/146L				
 * Tire Brand: Sumitomo * Tire Line: ST788SE * Tire Size: 11R24.5 149/146L 			ormation: tion for this tire line and size i uction and shipping records	s 437. The population is
Production Dates Begin: 01/26/2020 End: 03/28/2020				

* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
4F	6XFW	0420	0620		
U2	4F	6XFW	1120	1220	
Sumitomo ST788SE 2	85/75R24.5 147/	L44L			
* Tire Brand: Sumitomo			Descriptive Info	ormation:	
* Tire Line: ST788SE			The recall popula	tion for this tire line and size is 3	386. The population is
* Tire Size: 285/75R24	5 147/1441		based upon produ	uction and shipping records.	
111e 512e. 205/75121.	5 11//1112				
	gin: 02/23/2020 d: 03/14/2020				
ire Identification Number (TIN))				
* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
BP	6XFW	0820	0820		
U2	BP	6XFW	1020	1020	
Sumitomo ST719SE 1	1R22.5 146/143L				
* Tive Brands Cumiterne			Descriptive Inf		
* Tire Brand: Sumitomo			Descriptive Info The recall population	ormation: tion for this tire line and size is :	1446. The population is
* Tire Line: ST719SE			based upon produ	uction and shipping records.	
* Tire Size: 11R22.5 14	6/143L				
Production Dates Be	gin: 02/09/2020				
	id: 03/14/2020				
re Identification Number (TIN)					
* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
3T	6X3W	0620	1020		
Sumitomo ST719SE 1 * Tire Brand: Sumitomo * Tire Line: ST719SE * Tire Size: 11R24.5 14				ormation: tion for this tire line and size is ! uction and shipping records.	529. The population is
	gin: 02/09/2020 d: 03/28/2020				
re Identification Number (TIN)					
* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
4F	6X3W	0620	0720		
U2	4F	6X3W	1120	1220	
Sumitomo ST719SE 2	85/75R24.5 147/	L44L			
* Tire Brand: Sumitomo			Descriptive Infe		
* Tire Line: ST719SE			The recall popula	tion for this tire line and size is !	56. The population is base
* Tire Size: 285/75R24.	5 147/144L		upon production a	and shipping records.	
	gin: 03/08/2020 d: 03/14/2020				
re Identification Number (TIN))				
* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
BP	6X3W	1020	1020		
Sumitomo ST948SE 2	85/75R24.5 144/	L41L			
* Tire Brand: Sumitomo			Descriptive Info	ormation.	
ine planu. Sumitomo			Descriptive Into		

* Tire Line: ST948SI * Tire Size: 285/75R	E 224.5 144/141L			ion for this tire line and size is action and shipping records.	5 269. The population is
Production Dates	Begin: 01/26/2020 End: 02/29/2020				
Fire Identification Number (* * Plant ID code: BP U2	TIN) * Size code: 5XBW BP	Optional code: 0420 5XBW	* Beg. Date Code: 0420 0820	* End. Date Code: 0820	U2
Sumitomo ST948S	E 11R24.5 149/146L				
 * Tire Brand: Sumiton * Tire Line: ST948SI * Tire Size: 11R24.5 Production Dates 	E			ormation: ion for this tire line and size is iction and shipping records.	232. The population is
ire Identification Number (* * Plant ID code: 4F	TIN) * Size code: 6XBW	Optional code: 0520	* Beg. Date Code: 0520	* End. Date Code:	U2
Sumitomo ST938 1	1R24.5 149/146L				
 * Tire Brand: Sumiton * Tire Line: ST938 * Tire Size: 11R24.5 				prmation: ion for this tire line and size is iction and shipping records.	s 520. The population is
Production Dates	Begin: 05/31/2020 End: 06/02/2020				
Fire Identification Number (TIN) * Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	V4
* Plant ID code: 4F	6XTW	2220	2220		
	6XTW	-	-		
4F	6XTW 24.5 149/146K	-	2220 Descriptive Info The recall populat	prmation: ion for this tire line and size is uction and shipping records	s 184. The population is
4F Falken GI388 11R2 * Tire Brand: Falken * Tire Line: GI388 * Tire Size: 11R24.5	6XTW 24.5 149/146K 5 149/146K Begin: 03/01/2020 End: 04/04/2020	-	2220 Descriptive Info The recall populat	ion for this tire line and size is	5 184. The population is
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3T	6X3W	Optional code: 2020	* Beg. Date Code: 2020	* End. Date Code:	
Falken RI130EC 11	R22.5 146/143L				
* Tire Brand: Falken * Tire Line: RI130EC				formation: ition for this tire line and size uction and shipping records.	is 438. The population is
* Tire Size: 11R22.5	140/143L				
Production Dates	Begin:02/16/2020End:04/25/2020				
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* Plant ID code:	* Size code:	Optional code:	* Beg. Date Code:	* End. Date Code:	U2
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U2	3T	6XFW	1420	1620	
Falken RI130EC 11	R24.5 149/146L				
* Tire Brand: Falken			Descriptive Inf		is 26. The population is based
* Tire Line: RI130EC				and shipping records.	
* Tire Size: 11R24.5	149/146L				
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* Plant ID code: 4F Falken RI130EC 28 * Tire Brand: Falken * Tire Line: RI130EC * Tire Size: 285/75R Production Dates ire Identification Number (T * Plant ID code: BP Sumitomo ST528 1	IN) * Size code: 6XFW 5/75R24.5 147/144 24.5 147/144L Begin: 01/26/2020 End: 02/01/2020 IN) * Size code: 6XFW 1R24.5 16PR	1220	1220 Descriptive Inf The recall popula upon production * Beg. Date Code: 0420 Descriptive Inf The recall popula	formation: and shipping records. * End. Date Code: formation: tion for this tire line and size	is 54. The population is based
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 * Plant ID code: 4F Falken RI130EC 28 * Tire Brand: Falken * Tire Line: RI130EC * Tire Size: 285/75R Production Dates ire Identification Number (T * Plant ID code: BP Sumitomo ST528 1 * Tire Brand: Sumitom * Tire Size: 11R24.5 Production Dates ire Identification Number (T * Plant ID code: 	IN) * Size code: 6XFW 5/75R24.5 147/144 24.5 147/144L Begin: 01/26/2020 End: 02/01/2020 IN) * Size code: 6XFW 1R24.5 16PR 0 16PR Begin: 02/09/2020 End: 03/07/2020 IN) * Size code:	1220	1220 Descriptive Inf The recall popula upon production * Beg. Date Code: 0420 Descriptive Inf The recall popula based upon production * Beg. Date Code: * Beg. Date Code:	formation: and shipping records. * End. Date Code: formation: tion for this tire line and size	: is 54. The population is based
 * Plant ID code: 4F Falken RI130EC 28 * Tire Brand: Falken * Tire Line: RI130EC * Tire Size: 285/75R Production Dates ire Identification Number (T * Plant ID code: BP Sumitomo ST528 1 * Tire Brand: Sumitom * Tire Line: ST528 * Tire Size: 11R24.5 Production Dates ire Identification Number (T 	IN) * Size code: 6XFW 5/75R24.5 147/144 24.5 147/144L Begin: 01/26/2020 End: 02/01/2020 IN) * Size code: 6XFW 1R24.5 16PR 0 16PR Begin: 02/09/2020 End: 03/07/2020 IN)	. 1220	1220 Descriptive Inf The recall popula upon production * Beg. Date Code: 0420 Descriptive Inf The recall popula based upon production	formation: Ition for this tire line and size and shipping records. * End. Date Code: formation: Ition for this tire line and size uction and shipping records.	U2

Defect / Noncompliance Description

For this Defect/Noncompliance:

* Describe the defect or noncompliance:

Subject tires that complete the endurance test in FMVSS 119 S7.2 are susceptible to developing visible deformation in a single, small area of the bead (near the upper edge of a rim flange). This deformation may violate FMVSS 119 S6.1.2(a).

If a noncompliance, provide the applicable FMVSS:

119 - New pneumatic tires- other than passenger cars

If applicable, provide any further FMVSS affected:

Describe the cause:

Joint-tape rubber used to join the two ends of the inner liner may have been misplaced during the tire-building process. Additionally, due to a change in the joint-tape composition, the rubber's adhesiveness was altered. As a result, the joint-tape rubber in the subject tires may protrude beyond the designated area for the joint-tape rubber.

This Recall affects all vehicles.

If applicable, identify the manufacturer of the defective or noncompliant component. If the manufacturer of the component is unknown, provide the information for the company that supplied the subject component.

Component manufacturer

Company Information	Company Contact Information
Company Name:	First Name:
Country:	Last Name:
Address 1:	Position:
Address 2:	Email:
City:	Phone:
State:	
Zip/Postal Code:	

Involved Components

If the defect or noncompliance involves a specific component(s), identify that component(s) below.

Purchaser Information

Chronology of Defect / Noncompliance Determination

Provide the chronology of events leading up to the defect decision or test data for the noncompliance decision.: Please see the attached document for SRI's Chronology.

Identify the Remedy

Describe the defect/noncompliance remedy program, including the manufacturer's plan for reimbursement.

SRI intends to submit a petition for determination of inconsequential noncompliance in accordance with 49 CFR Part 556.

Describe what distinguishes the remedy component from the recalled component. SRI intends to submit a petition for determination of inconsequential noncompliance in accordance with 49 CFR Part 556.

Identify and describe how and when the recall condition was corrected in production.

The coexistence of the factors ended at the Shirakawa plant on June 2, 2020 and at the Miyazaki plant on June 9, 2020. Accordingly, tires manufactured on and after June 3, 2020 at the Shirakawa plant do not contain the defect and tires manufactured on and after June 10, 2020 at the Miyazaki plant do not contain the defect.

Identify the Recall Schedule

Describe the recall schedule for notifications.: SRI intends to submit a petition for determination of inconsequential noncompliance in accordance with 49 CFR Part 556.

Planned Dealer Notification Begin Date: Planned Dealer Notification End Date: Planned Owner Notification Begin Date: Planned Owner Notification End Date:

Manufacturer's identification code for this recall (if applicable):

Please be reminded that owner notification letters must be mailed no more than 60 days from submission of this report.

Manufacturer Comments to NHTSA Staff

SRI estimates that the total affected population is likely less than 2% for the total population identified. 11/17/2020: Changed "Sumitomo ST 788 + SE 285/75 R 24.5 144/141 L" to "Sumitomo ST 778 + SE 285/75 R 24.5 144/141 L" Changed "Sumitomo ST 719 SE 11 R 22.5 146/142 L" to "Sumitomo ST 719 SE 11 R 22.5 146/143 L"

* Describe the safety risk:

SRI believes this noncompliance is inconsequential to motor vehicle safety and intends to submit an inconsequentiality petition in accordance with 49 CFR Part 556.

Identify any warning which can precede or occur:

A deformation will be visible on the sidewall near the bead.

There are 1 documents associated with this report.

1200 New Jersey Avenue, SE, West Building Washington DC 20590 USA 1.888.327.4236 TTY 1.800.424.9153 This application works best in IE9 and above and recent versions of Firefox, Chrome and Safari

EXHIBIT NO. 2

Test 1. Continuously run market-returned tire on the drum machine to test growth of bulge

- Tyre : 275/80R22.5 SP680 1 tire
- Test Condition: 100% load of tire capacity, 900kPa air pressure, <a href="https://www.example.com/itions-state-align:com/itions-state-a

Result : No growth of bulge

Ref.: No air leak occurred.

*Bulge measurements - Before test: $40mm \rightarrow After test: 40mm$

Test 2. Durability test under to guarantee the bead durability until the end of tyre life

- Tyre : 275/80R22.5 SP680 1 tire
- Test Condition: 120% load of tire capacity, low air pressure
 Severe Condition : Low air pressure>

During Test (Continue Running at 57,365 k, as of December 3, 2020)

- Test 3. Bead durability test to guarantee the bead durability until the end of tyre life
 - Tyre : 295/80R22.5 SP128A 2 tires
 - Test Condition: -300% load of tire capacity, -200kPa higher air pressure than regulation

<Severe Condition : Over loading>

*Refer attached background of test method development

Result : Completed the full distance

Ref.: Bulge developed and cracking appaired on the bead area in last phase, but no air leak occurred.

EXHIBIT NO. 3

1 FMVSS 119 Endurance Test

SRI made two test tires with misplaced joint tape and conducted endurance tests under FMVSS 119 test condition

U24C1X7W3720

[FMVSS 119 Endurance Test Report]

- DOT No

Test Tires: 295/80R22.5 153/150J SP128A Judge item : FMVSS119 Standard

<Test Condition>

- Inner Pressure
- 900 kPa 48 km/h
- Speed
- Rim 8.25 x 22.5
- Room temperature 35±3 °C
 Test date 2020/09/28
- Drum diameter 67.23 inch

<Test Result>

Step	1 st	2 nd	3 rd
Load(kN)	23.63	30.07	36.16
I.P. (kPa)	900	900	900
Room Temperture(°C)	38	38	38
Time(hrs)	7	16	24

47hrs complete the full distance Exhibiting 40mm length of bulge on bead area(Non DOT side) *2 tires are same result



Looseness between "joint strip rubber" and "rubber chafer"

Appearance after endurance test



Completed full distance but exhibiting separation between 2 rubbers.
 Air leakage did not occur until test end.

EXHIBIT NO. 4

1 UNECE R54 Endurance Test

SRI made two test tires with misplaced joint tape and conducted endurance test under UNECE R54 test condition

U26N1X7W4020

[UNECE R54 Endurance Test Report]

- DOT No

Test Tires: 275/80R22.5 151/148J SP680 Judge item : UNECE R54 Standard

<Test Condition>

- Inner Pressure
- Speed
- 900 kPa 48 km/h
- Rim 8.25 x 22.5
- Room temperature 25±5 °C
- Test date 2020/10/23
- Drum diameter 67.23 inch
- <Test Result>

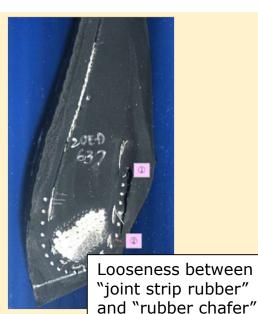
Step	1 st	2 nd	3 rd
Load(kN)	22.33	28.42	34.18
I.P. (kPa)	900	900	900
Room Temperature(°C)	25.0	25.0	25.0
Time(hrs)	7	16	24

47hrs complete the full distance.

Exhibiting 50mm length of bulge on bead area(Non DOT side)

*2 tires are same result

Completed full distance but exhibiting separation between 2 rubbers.
 Air leakage did not occur until test end.



Appearance after endurance test



EXHIBIT NO. 5

Test Description	Step	Room Temp. (°C)	Air Pressure (%)	Load (%)	Speed (km/h)		Running Time (Hrs)				-		•		Deformation	Air Leak or Structural Failure
FMVSS 119	1 st	35	100	66	48	7				No air leak or						
Endurance	2 nd	35	100	84	48	16	47	2,256	Bulge developed	structural						
	3 rd	35	100	101	48	27				damage						
UNECE R54	1 st	25	100	66	48	7				No air leak or						
Endurance	2 nd	25	100	84	48	16	47	2,256	Bulge developed							
	3 rd	25	100	101	48	27				damage						
Test 1 <normal condition=""></normal>	-	25	100	100	80	1,250	1,250	100,000	Bulge present at test outset	No air leak or structural damage						
Test 2	1 st	25	67	120	50	520	995+			Preliminary						
<severe :<="" condition="" td=""><td>2nd</td><td>25</td><td>67</td><td>120</td><td>60</td><td>285</td><td>Running</td><td></td><td></td><td>results: No</td></severe>	2 nd	25	67	120	60	285	Running			results: No						
Low air pressure>	3 rd	25	67	120	65	190		57,365	Bulge developed	air leak or structural						
	4 th	25	67	120	70	Running				damage						
Test 3	1 st	25			20				Bulge	No air leak						
<severe :<="" condition="" td=""><td>2nd</td><td>25</td><td></td><td></td><td>20</td><td></td><td></td><td></td><td>developed,</td><td>or structural</td></severe>	2 nd	25			20				developed,	or structural						
Over Loading>	3 rd	25	124	300	20	108			cracking in third phase	damage						

UNECE R54 \leq FMVSS 119 (Higher Temperature) < Test 1 (Higher Speed) << Test 2 (Lower Air Pressure) < Test 3 (Over Loading) \leftarrow Less Severe More Severe \rightarrow



ATTORNEYS AT LAW

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WRITER'S DIRECT LINE 202.672.5542 cgrigorian@foley.com

April 8, 2021

Via E-mail and FedEx

James C. Owens Deputy Administrator National Highway Traffic Safety Administration 1200 New Jersey Avenue, S.E. West Building Washington, D.C. 20590

Re: Supplemental Submission in Support of Petition for Determination of Inconsequential Noncompliance – NHTSA No. 20T020

Dear Mr. Owens:

On behalf of Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc. (jointly referred to as SRI), we are submitting the enclosed supplemental submission in support of SRI's Petition for Determination of Inconsequential Noncompliance pursuant to 49 U.S.C. §§ 30118(d) and 30120(h) and 49 C.F.R. §§ 556.1-556.9. The enclosed supplements SRI's December 4, 2020 Petition for Determination of Inconsequential Noncompliance related to the recall NHTSA No. 20T020.

We appreciate your consideration of the petition and this supplemental submission. Please contact me with any questions.

Sincerely,

Christopher H. Grigorian

CHG:krb Enclosures

cc: Otto Matheke (NHTSA OVSC) Claudia Covell (NHTSA OVSC) Abraham Diaz (NHTSA OCVSC) Robert Sullivan (Wilson Elser)

BOSTON BRUSSELS CHICAGO DETROIT

Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc. Supplemental Submission in Support of Petition for Determination of Inconsequential Noncompliance NHTSA No. 20T020

April 8, 2021

On December 4, 2020, Sumitomo Rubber Industries, Ltd. (SRI) and Sumitomo Rubber North America Inc. (SRNA) (hereinafter referred to jointly as SRI) submitted a Petition for Determination of Inconsequential Noncompliance pursuant to 49 C.F.R. Part 556, for an exemption from the notice and remedy requirements of 49 U.S.C. §§ 30118 and 30120.

The noncompliance related to a visual deformation that could form in the tire's bead area after completing the endurance test specified in FMVSS 119 S7.2. The presence of this deformation following completion of the test may constitute a nonconformity with FMVSS 119 S6.1.2(a), which specifies that the tire may not exhibit visual evidence of bead separation.

SRI submitted its petition on the basis that the visual deformation, which resulted from misplacement of joint tape used in the manufacturing process, did not result in structural weakness or otherwise affect the safety-related performance of the subject tires. To support the petition, SRI submitted test information related to three sets of tests that demonstrate the misplaced joint tape would not result in a consequential risk to motor vehicle safety. *See* SRI Petition re: NHTSA No. 20T020 at pp. 5 - 6. At the time of the December 4th petition, Test Two had not been completed. This supplemental submission provides the final results of SRI's Test Two.

As detailed in the petition, for Test Two SRI manufactured a test tire using intentionally misplaced joint tape to recreate the condition that resulted in the noncompliance. SRI inflated the tire to 67% of the recommended inflation pressure and overloaded the tire to 120% of its maximum load carrying capacity. During Phase One of Test Two, SRI ran the tire on the test drum at 50 km/h for 532 hours.¹ During Phase Two, SRI increased the speed to 60 km/h and ran the tire for 276 hours.² During Phase Three, SRI increased the speed to 65 km/h and ran the tire for 190 hours.³ During Phase Four, SRI increased the tire speed to 70 km/h. As explained in the petition, Phase Four had not been completed at the time of the petition. SRI has now completed Phase Four, as well as an additional phase, Phase Five, that increased the speed to 80 km/h. The full results of Test Two are shown in the following table:

¹ Exhibit No. 5 of the petition stated the running time for Phase One as 520 hours. This supplement corrects the running time to 532 hours.

 $^{^{2}}$ Exhibit No. 5 of the petition stated the running time for Phase Two as 285 hours. This supplement corrects the running time to 276 hours.

³ Exhibit No. 5 of the petition accurately stated the running time for Phase Three as 190 hours.

Test Description	Phase	Room Temp. (°C)	Air Pressure (%)	Load (%)	Speed (km/h)	Running Time (Hrs)		Running Distance (km)	Deformation	Result
	1 st	25	67	120	50	532			• Bulge	
Test Two (Severe	2 nd	25	60	120	60	276			developed due to misplaced	No air
Condition; Low air	3 rd	25	56	120	65	190	1,145	66,060	joint tape,Cracking due to	leak or structural
pressure)	4 th	25	53	120	70	121			excessive pressure on bead	damage
	5 th	25	50	120	80	26				
Test Two - Supplement (Severe Condition; Low air pressure)	1 st	25	67	120	80	240	240	19,164	Bulge developed	No air leak or structural damage

Test Two: Durability test to evaluate bead durability until the end of tire life Tire: 275/80R22.5 SP680 Test Condition: 120% load of tire capacity, low air pressure

As the table shows, during Phase Four, SRI ran the tire for 121 hours. Following the conclusion of Phase Four, SRI added Phase Five, increasing the speed to 80 km/h and loading the tire to 120% of the tire's maximum load carrying capacity. SRI ran Phase Five for 26 hours before ending the test.⁴

Test Two was initiated with an inflation pressure of 67% of the recommended pressure, and the pressure was not adjusted during the five phases of the test. While SRI did observe a decline in air pressure during the five phases of the test, this was attributable to the natural pressure loss that would be expected to occur with an ordinary (fully compliant) tire;⁵ it was not associated with the bulge in the bead (the noncompliance condition) or cracking that developed on the bulge due to the excessive strain applied to the bead area as a result of the pressure loss. More importantly, the tire exhibited no rapid air loss or other structural failure.

Following the conclusion of Phase Five, SRI conducted a supplemental test ("Test Two – Supplement" in the table above) with another tire manufactured with intentionally misplaced joint tape, inflated to 67% of the recommended inflation pressure, loaded to 120% of the tire's maximum load carrying capacity, and run at 80 km/h. The tire completed 240 hours (19,164 km)

⁴ SRI ended the test to prevent a fire because a burning smell was detected in the test room due to the friction between the rubber and the wire in the belt.

⁵ As the agency is aware, when a tire is run, it grows in size due to centrifugal force. At the same time, the internal pressure increases due to heat generated while it is run. As heat generation and dimensional growth is maxing out, oxygen permeates through the inner liner and is vented from the tire, causing the internal pressure to drop.

before SRI ended the test.⁶ A deformation formed in the bead in the area of the misplaced joint tape as expected, but the deformation did not crack on the bead, and there was no loss of pressure or structural failure.

* * *

The foregoing test results provide further support for SRI's position that the deformation and "bead separation" caused by the misplaced joint tape is not indicative of a structural weakness and, therefore, that the noncompliance is inconsequential to motor vehicle safety.

Respectfully submitted,

Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc.

 $^{^{6}}$ Similar to the primary test, SRI ended Test Two – Supplement after detecting a burning smell due to the friction between the rubber and the wire in the belt.



ATTORNEYS AT LAW

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WRITER'S DIRECT LINE 202.672.5542 cgrigorian@foley.com

July 9, 2021

Via Email and FedEx

Dr. Steven Cliff Acting Administrator National Highway Traffic Safety Administration 1200 New Jersey Avenue, S.E. West Building Washington, D.C. 20590

> Re: Second Supplemental Submission in Support of Petition for Determination of Inconsequential Noncompliance – NHTSA No. 20T020

Dear Dr. Cliff:

On behalf of Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc. (jointly referred to as SRI), we are submitting the enclosed second supplemental submission in support of SRI's Petition for Determination of Inconsequential Noncompliance pursuant to 49 U.S.C. §§ 30118(d) and 30120(h) and 49 C.F.R. §§ 556.1-556.9. The enclosed supplements SRI's December 4, 2020 Petition for Determination of Inconsequential Noncompliance and the April 9, 2021 Supplemental Submission in Support of Petition for Determination of Inconsequential Noncompliance both related to the recall NHTSA No. 20T020.

BOSTON BRUSSELS CHICAGO DETROIT MILWAUKEE NEW YORK ORLANDO SACRAMENTO SAN DIEGO SAN FRANCISCO SHANGHAI SILICON VALLEY TALLAHASSEE TAMPA TOKYO WASHINGTON, D.C.



July 9, 2021 Page 2

We appreciate your consideration of the petition and this supplemental submission. Please contact me with any questions.

Sincerely,

" Mingen h

Christopher H. Grigorian

CHG:krb Enclosures

cc: Otto Matheke (NHTSA OVSC) Claudia Covell (NHTSA OVSC) Abraham Diaz (NHTSA OCVSC) Robert Sullivan (Wilson Elser)

Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc. Second Supplemental Submission in Support of Petition for Determination of Inconsequential Noncompliance NHTSA No. 20T020

July 8, 2021

On December 4, 2020, Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc. (hereinafter referred to jointly as SRI) submitted a Petition for Determination of Inconsequential Noncompliance pursuant to 49 C.F.R. Part 556, for an exemption from the notice and remedy requirements of 49 U.S.C. §§ 30118 and 30120. On April 8, 2021, SRI submitted supplemental testing data to support its December 4, 2020 petition. SRI has conducted additional supplemental tests of additional tires sizes that further support its view that the noncompliance is inconsequential to motor vehicle safety.

Briefly, the noncompliance related to a visual deformation that could form in the tire's bead area after completing the endurance test specified in FMVSS 119 S7.2. The presence of this deformation following completion of the test may constitute a nonconformity with FMVSS 119 S6.1.2(a), which specifies that the tire may not exhibit visual evidence of bead separation.

SRI submitted its petition on the basis that the visual deformation, which resulted from misplacement of joint tape used in the manufacturing process, did not result in structural weakness or otherwise affect the performance of the subject tires. SRI supported this position with results from tests of increasing levels of severity. *See* SRI Petition RE: NHTSA No. 20T020 at pp. 5 - 6. Due to the length of one of the tests, some phases of the test had not been completed at the time of the December 4th petition. *See id*. On April 8, 2021, SRI submitted the completed test results along with data from an additional supplemental test.

SRI now submits further supplemental testing to support its petition. The further testing involves two phases in which SRI ran five separate tire sizes on the test drum – each representing an additional tire size in the noncompliant population. For all of the test tires, SRI intentionally manufactured test tires with misplaced joint tape to recreate the condition that resulted in the noncompliance.

In the first phase of this supplemental test, SRI inflated the tires to 100% of the recommended inflation pressure and loaded the tires to 100% of its maximum load carrying capacity. SRI ran each tire at 80 km/h for 1,250 continuous hours. All five tires developed bulges in the area near the misplaced joint tape as expected. None of the tires developed air leaks or structural damage. The tire sizes and summary of the results appear in the following table:

Supplemental Test, Phase One: Durability under normal loading conditions Test Condition: 100% load of tire capacity, recommended inflation pressure

Test Description		Pressure	Load (%)	Speed (km/h)		Running Distance (km)		Result
11R24.5 149/146L ST788SE	25	100	100	80	1,250	100,000	Bulge developed	No air leak or structural damage
285/75R24.5 147/144L RI130EC	25	100	100	80	1,250	100,000	Bulge developed	No air leak or structural damage
11R22.5 146/143L RI130EC	25	100	100	80	1,250	100,000	Bulge developed	No air leak or structural damage
315/80R22.5 156/150L RI151S ¹	25	100	100	80	1,250	100,000	IBulge developed	No air leak or structural damage
11R24.5 149/146L ST938 ²	25	100	100	80	1,250	100,000	Bulge developed	No air leak or structural damage

In the second phase of this supplemental test, starting with new tires, SRI inflated the tires to 67% of the recommended inflation pressure. SRI loaded three of the test tires³ to 120% of its maximum load carrying capacity. For the two remaining tires, SRI loaded the tires to 100% of its maximum load carrying capacity.⁴

SRI ran each of the test tires at 80 km/h under these severe loading conditions. SRI halted each test after it detected a burning smell due to the friction between the rubber and the wire in the belt. All five tires developed bulges in the area near the misplaced joint tape as expected. None of the tires developed air leak or structural damage. The tire sizes and summary of the results appear in the following table:

¹ Because the 315/80R22.5 156/150L RI151S is not a fuel efficient tire, it is relatively more prone to heat when run continuously on a test drum, which does not represent real-world conditions. SRI buffed 4 mm into the tread to mitigate some of this heat susceptibility. For reference, tread wear of 8 mm represents approximately 100,000 km of usage. Because the test intended to evaluate structural strength and not heat susceptibility, the 4 mm adjustment is unlikely to materially impact the evaluation.

 $^{^{2}}$ The 11R24.5 149/146L ST938 tires are intended for dual use on the drive axle. Accordingly, SRI used loading information based on the 146 load index.

³ The 11R24.5 149/146L ST788SE, 285/75R24.5 147/144L RI130EC, and 11R22.5 146/143L RI130EC.

⁴ The 315/80R22.5 156/150L RI151S tire is bus tire and the 11R24.5 149/146L ST938 is a drive axle tire for dual use. Neither tire would likely be overloaded in real world use.

Test Description	-	Pressure		Speed (km/h)	Time	Running Distance (km)	Deformation	Result
11R24.5 149/146L ST788SE	25	67	120	80	806	64,493	Bulge developed	No air leak or structural damage
285/75R24.5 147/144L RI130EC	25	67	120	80	283	22,609	Rulge developed	No air leak or structural damage
11R22.5 146/143L RI130EC	25	67	120	80	453	36,210	Rulge developed	No air leak or structural damage
315/80R22.5 156/150L RI151S ⁵	25	67	100	80	743	59,390	Bulge developed	No air leak or structural damage
11R24.5 149/146L ST938 ⁶	25	67	100	80	1,114	89,171	Bulge developed	No air leak or structural damage

Supplemental Test, Phase Two: Durability under severe loading conditions Test Condition: 67% recommended inflation pressure

Consistent with previous test data, the tires did not develop air leaks or show signs of other structural damage. These results further support that the deformation and "bead separation" caused by the misplaced joint tape is not indicative of a structural weakness.

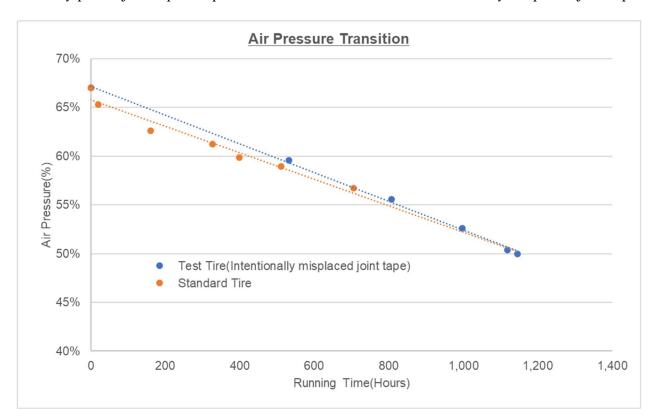
Moreover, in the April 8, 2021 supplement to the petition, SRI noted that during previous testing it did observe a decline in air pressure during the five phases of that supplemental test. *See* April 8, 2021 Supplemental Submission to SRI Petition RE: NHTSA No. 20T020 at p. 2. SRI concluded, however, that this loss of pressure was consistent with "the natural pressure loss that would be expected to occur with an ordinary (fully compliant) tire." *Id*.

Following the April 8, 2021 submission, SRI tested a tire with *correctly* placed joint tape (standard tire) to support its conclusion regarding the natural pressure loss of the test tire. The standard tire was a 275/80R22.5 SP680 tire loaded to 120% of load carrying capacity, inflated to 67% of the recommended inflation pressure, and run at 50 km/h for 532 hours in the first phase and at 60 km/h for 276 hours in the second phase the same way Test Two on page 2 of the April 8, 2021 supplemental submission was conducted. Likewise, SRI intended to run the standard tire at 65 km/h for 190 hours in the third phase. But SRI halted the test of the standard tire at 850 cumulative hours (*i.e.*, at 42 hours after the third phase started) after detecting a burning smell due

⁵ As explained in footnote 1, SRI buffed 4 mm of tread from this tire to mitigate excessive heat accumulation.

⁶ As explained in footnote 2, SRI used the 146 load index for this tire.

to the friction between the rubber and the wire in the belt.⁷ SRI measured the inflation pressure under the same condition as Test Two on page 2 of the April 8, 2021 supplemental submission.



The following graph represents the loss of inflation pressure in the standard tire with *correctly* placed joint tape compared with the same tire size with *intentionally* misplaced joint tape.

Each tire lost air pressure at similar rates over the phases of the test. These results corroborate SRI's conclusions that the loss of inflation pressure was not the result of misplaced joint tape or bead separation in the tire.

⁷ SRI notes that the test tire with intentionally misplaced joint tape used in the five-phase test ran for 1,145 hours before SRI halted the test due to a burning smell.

* * *

The foregoing test results provide further support for SRI's position that the deformation and "bead separation" caused by the misplaced joint tape is not indicative of a structural weakness and, therefore, that the noncompliance is inconsequential to motor vehicle safety.

Respectfully submitted,

Sumitomo Rubber Industries, Ltd. and Sumitomo Rubber North America Inc.

Manufacturer Name :Sumitomo Rubber Industries, Ltd.Submission Date :NOV 12, 2020NHTSA Recall No. :20T-020Manufacturer Recall No. :NR



20T-020

Manufacturer Information :

Manufacturer Name : Sumitomo Rubber Industries, Ltd.

Address : 6-9,3-Chome, Wakinohama-Cho, Chuo-Ku Kobe 00 651-0072 Company phone : 999

Population :

Number of potentially involved : 8,275Estimated percentage with defect : 2%

Tire Information :

Tire Brand 1:	Sumitomo
Tire Line :	ST900
Tire Size :	11R24.5 16PR
Descriptive Information :	The recall population for this tire line and size is 88. The population is based upon production and shipping records.
Production Dates :	MAR 01, 2020 - MAR 07, 2020

TIN (Tire Identification Number)

Plant ID U2	Size code 4F	Optional Code 6XAW	Begin M Code 0920	End M Code 0920	
Tire Bra	and 2: Sumitor	10			
Tire	e Line : ST528				
Tir	e Size : 11R24.5	16PR			
Descriptive Inform		ll population for the oduction and shippi		is 484. The populatio	on is based
Production	Dates: FEB 09, 2	2020 - MAR 07, 202	20		
TIN (Tire Identific	ation Number)				

Plant ID	Size code	Optional Code	Begin M Code	End M Code
U2	4F	6XJW	0620	0620
U2	4F	6XJW	0820	0920

T	Brand 3 : Sumito ire Line : ST528	mo				
Т	'ire Size : 11R22.	5 16PR				
Descriptive Infor		call population for th roduction and shippi		is 381. The population is based		
Productio	n Dates : MAR 1	5, 2020 - APR 25, 202	20			
IN (Tire Identif	fication Number)				
Plant ID	Size code	Optional Code	Begin M Code	End M Code		
U2 U2	3T 3T	6XJW 6XJW	1120 1520	1120 1620		
	Brand 4 : Sumito					
	ire Line : ST710S					
	ire Size : 11R22.					
Descriptive Infor		call population for th roduction and shippi		is 201. The population is based		
Productio		8, 2020 - MAR 21, 20	0			
	fication Number		~ 0			
Plant ID	Size code	Optional Code	Begin M Code	End M Code		
U2	3T	5X8W	1020	1120		
	Brand 5 : Sumito					
	ire Line : ST710S					
		5R24.5 144/141L	1. 1 .			
Descriptive Infor		The recall population for this tire line and size is 160. The population is based upon production and shipping records				
Productio	n Dates : FEB 23	, 2020 - MAR 14, 202	20			
	ication Number)				
IN (Tire Identif		Optional Code	Begin M Code	End M Code		
IN (Tire Identif Plant ID	Size code	1	0			
	Size code BP BP	5X8W 5X8W	0820 1020	0820 1020		

The information contained in this report was submitted pursuant to 49 CFR §573

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Tire Size :11R24.5 146/143LDescriptive Information :The recall population for this tire line and size is upon production and shipping recordsProduction Dates :JAN 26, 2020 - FEB 08, 2020 TN (Tire Identification Number) Plant IDPlant IDSize codeOptional CodeU24F5X8WO420Tire Brand 7 :Sumitomo Tire Line :ST788+SE Tire Size :285/75R24.5 144/141LDescriptive Information :The recall population for this tire line and size is upon production and shipping records.Production Dates :JAN 26, 2020 - FEB 29, 2020 TN (Tire Identification Number) Plant IDSize codeOptional CodeBegin M Code U2U2BP5X1W0420U2BP5X1W0420Tire Brand 8 :Sumitomo	End M Code 0520
Production Dates :JAN 26, 2020 - FEB 08, 2020IN (Tire Identification Number)Plant IDSize codeOptional CodeBegin M CodeU24F5X8W0420Tire Brand 7 :SumitomoTire Line :ST788+SETire Size :285/75R24.5 144/141LDescriptive Information :The recall population for this tire line and size is upon production and shipping records.Production Dates :JAN 26, 2020 - FEB 29, 2020IN (Tire Identification Number)Plant IDSize codeOptional CodeBegin M CodeU2BP5X1W0420U2BP5X1W0420U2BP5X1W0420	0520 s 118. The population is based End M Code 0420
TN (Tire Identification Number) Plant ID Size code Optional Code Begin M Code U2 4F 5X8W 0420 Tire Brand 7 : Sumitomo Tire Line : ST788+SE Tire Size : 285/75R24.5 144/141L Descriptive Information : The recall population for this tire line and size is upon production and shipping records. Production Dates : JAN 26, 2020 - FEB 29, 2020 TN (Tire Identification Number) Plant ID Plant ID Size code Optional Code Begin M Code U2 BP 5X1W 0420 U2 BP 5X1W 0420	0520 s 118. The population is based End M Code 0420
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Plant IDSize codeOptional CodeBegin M CodeU2BP5X1W0420U2BP5X1W0820	0420
U2 BP 5X1W 0420 U2 BP 5X1W 0820	0420
Tire Brand 8: Sumitomo	
Tire Line : ST709SE	
Tire Size : 285/75R24.5 144/141L	
Descriptive Information : The recall population for this tire line and size is upon production and shipping records.	s 27. The population is based
Production Dates : JAN 26, 2020 - FEB 01, 2020	
IN (Tire Identification Number)	
Plant IDSize codeOptional CodeBegin M CodeU2BP5X8W420	End M Code 420

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upon production and shipping recordsProduction Dates :JAN 26, 2020 - FEB 08, 2020TN (Tire Identification Number)Plant IDSize codeU24F6X1W04200520Tire Brand 11:SumitomoTire Line :ST788SETire Size :285/75R24.5 147/144LDescriptive Information :The recall population for this tire line and size is 386. The population is basedupon production Dates :FEB 23, 2020 - MAR 14, 2020	Descriptive Inform	re Size : 11R24.5	upon production and shipping records.					
The Crime Identification Number) Plant ID Size code 4F Optional Code 6X8W Begin M Code 0620 End M Code 0620 Tire Brand 10: Sumitomo Tire Line: ST778+SE Tire Size: 11R24.5 149/146L Descriptive Information: The recall population for this tire line and size is 221. The population is based upon production and shipping records Production Dates: JAN 26, 2020 - FEB 08, 2020 TK (Tire Identification Number) Plant ID Size code 4F Optional Code 6X1W Begin M Code 0520 End M Code 0520 Tire Brand 11: Sumitomo Tire Line: ST788SE Tire Size: 285/75R24.5 147/144L Descriptive Information: The recall population for this tire line and size is 386. The population is based upon production and shipping records. Production Dates: FEB 23, 2020 - MAR 14, 2020 TK (Tire Identification Number) Plant ID Size code Optional Code Begin M Code End M Code upon production and shipping records. Production Dates: FEB 23, 2020 - MAR 14, 2020 TH Tire Identification Number) Plant ID Size code Optional Code Begin M Code End M Code upon grow of a code Plant ID Size code Optional Code Begin M Code		upon pr						
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U2 BP 6XFW 0820 0820	'IN (Tire Identifi	cation Number)						
	U2	BP	6XFW	0820	0820			

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Ti	and 12 : Sumito re Line : ST948S re Size : 11R24.	SE		
Descriptive Infor		call population for th roduction and shipp		is 232. The population is based
		, 2020 - FEB 08, 2020	0	
FIN (Tire Identifi	ication Number)			
Plant ID U2	Size code 4F	Optional Code 6XBW	Begin M Code 0520	End M Code 0520
Ti	and 13: Sumito re Line: ST908N re Size: 11R22.	J		
•	upon p	roduction and shipp	ing records.	is 68. The population is based
		, 2020 - APR 11, 202	0	
FIN (Tire Identifi	ication Number))		
Plant ID U2	Size code 3T	Optional Code 6X3W	Begin M Code 1420	End M Code 1420
Ti	and 14: Sumito re Line: ST788S re Size: 11R22.	SE		
	upon p	all population for th roduction and shipp , 2020 - MAR 14, 202	ing records.	is 1,067. The population is based
FIOduction			.0	
Plant ID U2	Size code 3T	Optional Code 6XFW	Begin M Code 0720	End M Code 1020

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Ti	and 15 : Sumitor re Line : ST788S			
	ire Size : 11R24.5			
Descriptive Infor		all population for thi oduction and shippi		is 437. The population is based
Production	n Dates : JAN 26,	2020 - MAR 28, 202	0	
FIN (Tire Identif	ication Number)			
Plant ID	Size code	Optional Code	Begin M Code	End M Code
U2 U2	4F 4F	6XFW 6XFW	0420 1120	0620 1220
	and 16 : Sumitor re Line : ST719S			
	ire Size : 11R22.5			
			is tire line and size	is 1446. The population is based
2 0001 p 01 0 11101		oduction and shippi		
Production	n Dates : FEB 09,	2020 - MAR 14, 202	0	
FIN (Tire Identif	ication Number)			
Plant ID	Size code	Optional Code	Begin M Code	End M Code
U2	3T	6X3W	0620	1020
	and 17 : Sumitor			
		H'		
Ti	re Line : ST719S			
Ti T	re Line : ST719S ire Size : 11R24.5	5 149/146L	is tire line and size	is 529. The nonulation is based
Ti T	re Line : ST719S ire Size : 11R24.5 mation : The reca	5 149/146L		is 529. The population is based
Ti T Descriptive Infor	re Line : ST719S ire Size : 11R24.5 mation : The reca upon pr	5 149/146L all population for th	ng records.	is 529. The population is based
Ti T Descriptive Infor Production	re Line : ST719S ire Size : 11R24.5 mation : The reca upon pr	5 149/146L all population for thi oduction and shippi 2020 - MAR 28, 202	ng records.	is 529. The population is based
Ti T Descriptive Infor Production	re Line : ST719S ire Size : 11R24.5 mation : The recaupon pr n Dates : FEB 09,	5 149/146L all population for thi oduction and shippi 2020 - MAR 28, 202	ng records.	is 529. The population is based End M Code

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	re Line : ST719S ire Size : 285/75			
Descriptive Infor		all population for th oduction and shipp		is 56. The population is based
Production		, 2020 - MAR 14, 20	0	
TIN (Tire Identif	ication Number)			
Plant ID U2	Size code BP	Optional Code 6X3W	Begin M Code 1020	End M Code 1020
Ti	and 19: Sumitor re Line: ST948S ire Size: 285/75	E		
-	upon pr	all population for th oduction and shippi 2020 - FEB 29, 2020	ing records.	is 269. The population is base
TIN (Tire Identif	ication Number)			
Plant ID U2 U2	Size code BP BP	Optional Code 5XBW 5XBW	Begin M Code 0420 0820	End M Code 0420 0820
Ti	and 20: Sumitor re Line: ST938			
				is 520. The population is base
Production	n Dates : MAY 31	, 2020 - JUN 02, 202	0	
TIN (Tire Identif	ication Number)			
Plant ID V4	Size code 4F	Optional Code 6XTW	Begin M Code 2220	End M Code 2220

The information contained in this report was submitted pursuant to 49 CFR $\S573$

Ti	and 21 : Falken re Line : RI130E(
	ire Size: 11R22.5 mation: The reca		is tire line and size	is 438. The population is based
Descriptive mor		oduction and shippi		is too. The population is based
Production	n Dates : FEB 16,	2020 - APR 25, 202	0	
FIN (Tire Identif	ication Number)			
Plant ID	Size code	Optional Code	Begin M Code	End M Code
U2	3T	6XFW	0720	0720
U2 U2	3T 3T	6XFW 6XFW	1020 1420	1020 1620
	and 22 : Falken	-		
	re Line : RI130E			
· · · · · · · · · · · · · · · · · · ·				
	ire Size : 11R24.5			
	mation : The reca	all population for th		is 26. The population is based
Descriptive Infor	mation: The reca upon pr	all population for th oduction and shippi	ing records.	is 26. The population is based
Descriptive Infor	mation: The reca upon pr	all population for th	ing records.	is 26. The population is based
Descriptive Infor Production	mation: The reca upon pr	all population for th oduction and shippi	ing records.	is 26. The population is based
Descriptive Infor Production	mation : The reca upon pr n Dates : MAR 22	all population for th oduction and shippi	ing records.	is 26. The population is based End M Code
Descriptive Infor Production FIN (Tire Identif	mation : The reca upon pr n Dates : MAR 22 ication Number)	all population for th oduction and shippi , 2020 - MAR 28, 20	ing records. 20	
Descriptive Infor Production FIN (Tire Identif Plant ID U2	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code	ing records. 20 Begin M Code	End M Code
Descriptive Infor Production FIN (Tire Identif Plant ID U2 Tire Bra	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code 4F	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code	ing records. 20 Begin M Code	End M Code
Descriptive Infor Production FIN (Tire Identif Plant ID U2 Tire Bra Ti	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code 4F and 23 : Falken re Line : GI388	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code 6XFW	ing records. 20 Begin M Code	End M Code
Descriptive Infor Production FIN (Tire Identif Plant ID U2 Tire Bra Ti Ti	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code 4F and 23 : Falken re Line : GI388 ire Size : 11R24.5 mation : The reca	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code 6XFW	ing records. 20 Begin M Code 1220 is tire line and size	End M Code
Descriptive Infor Production FIN (Tire Identif Plant ID U2 Tire Bra Ti Descriptive Infor	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code 4F and 23 : Falken re Line : GI388 ire Size : 11R24.5 mation : The reca upon pr	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code 6XFW	ing records. 20 Begin M Code 1220 is tire line and size ing records	End M Code 1220
Descriptive Infor Production FIN (Tire Identif Plant ID U2 Tire Bra Ti Descriptive Infor Production	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code 4F and 23 : Falken re Line : GI388 ire Size : 11R24.5 mation : The reca upon pr	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code 6XFW	ing records. 20 Begin M Code 1220 is tire line and size ing records	End M Code 1220
Descriptive Infor Production FIN (Tire Identif Plant ID U2 Tire Bra Ti Descriptive Infor Production	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code 4F and 23 : Falken re Line : GI388 ire Size : 11R24.5 mation : The reca upon pr n Dates : MAR 01	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code 6XFW	ing records. 20 Begin M Code 1220 is tire line and size ing records	End M Code 1220
Descriptive Infor Production FIN (Tire Identif Plant ID U2 Tire Bra Ti Descriptive Infor Production	mation : The reca upon pr n Dates : MAR 22 ication Number) Size code 4F and 23 : Falken re Line : GI388 ire Size : 11R24.5 mation : The reca upon pr n Dates : MAR 01 ication Number)	all population for th oduction and shippi , 2020 - MAR 28, 20 Optional Code 6XFW	ing records. 20 Begin M Code 1220 is tire line and size ing records 20	End M Code 1220 is 184. The population is based

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T	and 24 : Falken ire Line : RI150E ire Size : 11R22.3			
-	upon pr	oduction and shippi	ing records	is 222. The population is based
		, 2020 - MAY 23, 202	20	
	ication Number)			
Plant ID U2	Size code 3T	Optional Code 6X3W	Begin M Code 2020	End M Code 2020
T	and 25 : Falken re Line : RI130E ire Size : 285/75			
-	upon pr	oduction and shippi	ng records.	is 54. The population is based
	n Dates: JAN 26, ication Number)	2020 - FEB 01, 2020)	
			De du MCe le	
Plant ID U2	Size code BP	Optional Code 6XFW	Begin M Code 0420	End M Code 0420
T: T				is 140. The population is based
Productio		, 2020 - MAY 30, 202	0	
ΓΙΝ (Tire Identif	ication Number)			
Plant ID V4	Size code 4D	Optional Code 8XYW	Begin M Code 2120	End M Code 2120
scription of Defe	ct :			
Description of t	susce	ptible to developing the upper edge of a	visible deformation	st in FMVSS 119 S7.2 are n in a single, small area of the bea eformation may violate FMVSS 11
	FMVSS 1: 119 -	New pneumatic tire	s- other than passe	nger cars

NR
SRI believes this noncompliance is inconsequential to motor vehicle safety and intends to submit an inconsequentiality petition in accordance with 49 CFR Part 556.
Joint-tape rubber used to join the two ends of the inner liner may have been misplaced during the tire-building process. Additionally, due to a change in the joint-tape composition, the rubber's adhesiveness was altered. As a result, the joint-tape rubber in the subject tires may protrude beyond the designated area for the joint-tape rubber.
A deformation will be visible on the sidewall near the bead.

Involved Components :

Component Name : NR Component Description : NR Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : NR Address : NR NR Country : NR

Chronology :

Please see the attached document for SRI's Chronology.

Description of Remedy :		
Description of Remedy Program :	SRI intends to submit a petition for determination of inconsequential noncompliance in accordance with 49 CFR Part 556.	
5 1	SRI intends to submit a petition for determination of inconsequential noncompliance in accordance with 49 CFR Part 556.	
The information contained in this report was submitted pursuant to 49 CFR §573		

5	 n The coexistence of the factors ended at the Shirakawa plant on June 2, 2020 and at the Miyazaki plant on June 9, 2020. Accordingly, tires manufactured on and after June 3, 2020 at the Shirakawa plant do not contain the defect and tires manufactured on and after June 10, 2020 at the Miyazaki plant do not contain the defect.
Recall Schedule :	
Description of Recall Schedule	: SRI intends to submit a petition for determination of inconsequential noncompliance in accordance with 49 CFR Part 556.
Planned Dealer Notification Date	: NR - NR
Planned Owner Notification Date	: NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : NR Address : NR NR Country : NR Company Phone : NR

* NR - Not Reported

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