



For Question,
Please Contact with WSCT
www.wsct-cert.com

Page 1 of 23

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Applicant : Zhongshan LiangShun Kitchen & Bath. Co.,Ltd
Applicant Address : Block D, No 20 Xiang' an North Road, Huangpu Town, Zhongshan City, Guangdong Province, China

Sample Description

Report on the submitted sample said to be:

Sample Name : Stainless steel sink with accessories
Model : See page 2
Country of Origin : CHINA
Sample Received Date : August 31, 2022
Testing Period : August 31, 2022 to September 14, 2022

Test Result(s): pls refer to next page(s)

Prepared by:



Tan Dexin
Report Clerk

Reviewed by:



Liu Yizu
Lab Supervisor

Approved by:



Date

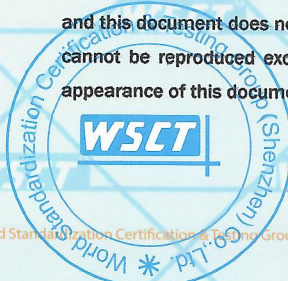
: 10 October 2022

Wang Fengbing
Authorized Signatory



Unless otherwise stated the results shown in this test report refer only to the sample (s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.wsct-cert.com and, for electronic format document, subject to Items and Conditions for Electronic Document at www.wsct-cert.com/en/index.asp. Attention is draw to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law.





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 2 of 23

Test Requested	Result
1) EN 13310:2015+A1:2018 Kitchen sinks - Functional requirements and test methods	PASS
2) KS 06-452:1998 Specification for stainless steel sinks for domestic purposes	See Page 9~15

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 3 of 23

General product information :

Model No.: LS-4848, LS-5151, LS-5040, LS-5545, LS-6045, LS-10050B, LS-5745, LS-7750, LS-15050D, LS-7642, LS-7540, LS-9643, LS-8643, LS-9050, LS-9146, LS-7843, LS-8143D, LS-8050DB, LS-12050B, LS-12050A, LS-10050G3, LS-12060GL, LS-9245, LS-12050G, LS-13646, LS-15050S, LS-18050, LS-12050H

Model	Description
LS-6045	Stainless steel kitchen sink, Single bowl,Single drainer
LS-5040	Stainless steel kitchen sink, Single bowl,Single drainer
LS-7642	Stainless steel kitchen sink, Single bowl,Single drainer
LS-10050B	Stainless steel kitchen sink, Single bowl,Single drainer
LS-5745	Stainless steel kitchen sink, Single bowl,Single drainer
LS-4848	Stainless steel kitchen sink, Single bowl,Single drainer
LS-5151	Stainless steel kitchen sink, Single bowl,Single drainer
LS-7750	Stainless steel kitchen sink, Single bowl,Single drainer
LS-7540	Stainless steel kitchen sink, Single bowl,Single drainer
LS-9050	Stainless steel kitchen sink, Single bowl,Single drainer
LS-9146	Stainless steel kitchen sink, Single bowl,Single drainer
LS-8643	Stainless steel kitchen sink, Single bowl,Single drainer
LS-9643	Stainless steel kitchen sink, Single bowl,Single drainer
LS-15050S	Stainless steel kitchen sink, Single bowl,Single drainer
LS-5545	Stainless steel kitchen sink, Single bowl,Single drainer
LS-8143D	Stainless steel kitchen sink, Double bowl, Double drainer
LS-8050	Stainless steel kitchen sink, Double bowl, Double drainer
LS-7843	Stainless steel kitchen sink, Double bowl, Double drainer
LS-12050B	Stainless steel kitchen sink, Double bowl, Double drainer
LS-12050H	Stainless steel kitchen sink, Double bowl, Double drainer
LS-12050G	Stainless steel kitchen sink, Double bowl, Double drainer, Single bin
LS-15050D	Stainless steel kitchen sink, Double bowl, Double drainer
LS-18050	Stainless steel kitchen sink, Double bowl, Double drainer
LS-12060GL	Stainless steel kitchen sink, Double bowl, Double drainer, Single bin
LS-12050A	Stainless steel kitchen sink, Double bowl, Double drainer





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 4 of 23

LS-9245	Stainless steel kitchen sink, Double bowl, Double drainer, Single bin
LS-10050G3	Stainless steel kitchen sink, Triple bowl, Triple drainer
LS-13646	Stainless steel kitchen sink, Triple bowl, Triple drainer





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 5 of 23

1) KITCHEN SINKS TEST

As per the client's requirement, according to the standard of EN 13310: 2015+A1: 2018 Kitchen sinks - Functional requirements and test methods, the submitted samples were subjected to the following tests.

Clause	Test Item & Method & Requirement	Results
4	Characteristics	
4.1	General Instructions for installation, use and care shall be supplied. Annex A gives advice on the care and use of kitchen sinks which can be included in the instructions for use and care. NOTE The manufacturer's declaration of conformity with applicable European Directives is made in his instructions for use and care on materials intended to come into contact with foodstuffs (see Bibliography).	See Remark 1
4.2	Connecting dimensions The connecting dimensions shall meet the requirements specified in EN 695.	P (See Remark 2)
4.3	Draining of water When tested in accordance with 5.2 all surfaces of the kitchen sink shall be inclined towards the bowl(s) and/or outlet(s) to ensure the drainage of water. The requirement shall apply only to the bowl and the draining area (if applicable). The requirement shall not apply to tap platforms	P
4.4	Resistance to dry heat The test is intended to determine the suitability of kitchen sink surfaces where contact with moderately hot cooking pots is to be expected. When tested in accordance with 5.3, or alternatively at a temperature of 180 °C in accordance with ISO 4211-3, the kitchen sink shall not show surface changes which influence its usage, e.g. cracks, crazing, through cracks, blistering. Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic	P





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 6 of 23

Clause	Test Item & Method & Requirement	Results
4.5	<p>Resistance to temperature changes</p> <p>When tested in accordance with 5.4, the kitchen sink shall not show surface changes which influence its intended usage, e.g. cracks, de-lamination.</p> <p>Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic</p>	P
4.6	<p>Resistance against chemicals and staining agents</p> <p>Kitchen sinks, when used as intended, shall be resistant to household chemicals, foodstuffs and cleansing agents.</p> <p>When tested in accordance with 5.5, the kitchen sinks shall not show any permanent surface deterioration, such as stains or deterioration which are not removable with water or abrasive agents.</p>	P
4.7	<p>Surface stability</p>	
4.7.1	<p>Resistance to scratching</p> <p>This characteristic is applicable only to multi-layer kitchen sinks to ensure the stability of the top layer.</p> <p>When tested in accordance with 5.6, any scratch shall not exceed 0,1 mm and/or the total depth of the top layer whichever is the least.</p> <p>Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic.</p>	NA
4.7.2	<p>Resistance to abrasion</p> <p>This characteristic is applicable only to multi-layer kitchen sinks to ensure the stability of the top layer.</p> <p>When tested in accordance with 5.7, the top layer of the test specimen shall not be abraded through.</p> <p>Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this characteristic.</p>	NA
4.8	<p>Load stability</p> <p>When tested in accordance with 5.8, the wall-hung sink shall not crack, fall down or show permanent distortion.</p>	NA





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 7 of 23

Clause	Test Item & Method & Requirement	Results
4.9	Flow rate of the overflow Every kitchen sink shall be protected against overflowing. When tested in accordance with 5.9, the flow rate of the overflow shall not be less than 0,20 l/s. NOTE In kitchen sinks with two or more bowls, it is possible to have only one overflow if the overflow from	P
4.10	Durability Kitchen sinks conforming to the characteristics of 4.3 to 4.8 are deemed to be durable.	P

Abbreviations: P=Pass F=Fail NA=Not applicable

Remark 1: As the manufacturer was not provided the Instructions, Clause 4.1 was not assessed in this result.





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 8 of 23

Remark 2:

▼ KITCHEN SINKS-CONNECTING DIMENSIONS TEST

As per the client's requirement, according to the standard of EN 695:2005 Kitchen sinks - Connecting dimensions, the submitted samples were subjected to the following tests.

Clause	Test Item & Method & Requirement	Results
4	Waste outlet holes The connecting dimensions for waste outlet holes shall comply with the requirements given in Table 1 except when the waste outlets are supplied by the manufacturer together with the kitchen sink.	P
5	Fitting area for tap holes	
5.1	Fitting area for a single tap hole The fitting area for the single tap hole shall comply with the requirements given in Table 2.	P (See Remark 3)
5.2	Fitting area for the two-hole mixer tap The fitting area for the two-hole mixer tap shall comply with the requirement given in Table 3.	P (See Remark 4)
6	Overflow holes Overflow holes, if provided, shall meet the requirements of Table 4 except when the overflow and its pipework is supplied by the manufacturer together with the kitchen sink or for kitchen sinks with an integral overflow.	P

Abbreviations: P=Pass F=Fail NA=Not applicable

Remark:

3. The result of clause 5.1 only apply for the model: LS-6045, LS-5040, LS-7642, LS-10050B, LS-5745, LS-4848, LS-5151, LS-7750, LS-7540, LS-9050, LS-9146, LS-8643, LS-9643, LS-15050S, LS-5545.

4. The result of clause 5.2 only apply for the model: LS-8143D, LS-8050, LS-7843, LS-12050B, LS-12050H, LS-12050G, LS-15050D, LS-18050, LS-12060GL, LS-12050A, LS-9245.





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 9 of 23

2) KITCHEN SINKS TEST

As per the client's requirement, according to the standard of KS 06-452:1998 Specification for stainless steel sinks for domestic purposes, the submitted samples were subjected to the following tests.

Clause	Test Item & Method & Requirement	Results
2.2	Dimensions The dimensions of common sinks shall comply with Table 1, specifying sizes.	See Note
2.2.1	Bowls The minimum depth of sinks shall be 145 mm. The depth shall be measured from the effective top radius of bowl (see Figures 1, 2, 3 and 4). The minimum internal top dimensions shall be 370 mm x 340 mm for rectangular bowls, and 380 mm for round bowls.	See Note
2.2.2	Bowl Location Limits The minimum distance from the front of the sink to the edge of the bowl shall be 30 mm. The minimum distance between the edges of two bowls when filled shall be 20 mm. The drainer shall have an incline 5 mm in 750 mm towards the centre line of the bowl.	P
3	MATERIAL REQUIREMENTS	
3.1	The minimum thickness shall be 0.7 mm.	NC
3.2	The material used in the manufacture of stainless steel sinks shall have the following chemical analysis: Silicon – 1.0 % Carbon – 0.08 % max. Nickel – 8 to 11 % Chromium – 17 to 20 % Manganese – 2.0 % max. Phosphorus – 0.045 % max. Sulphur – 0.030 %	P





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 10 of 23

Clause	Test Item & Method & Requirement	Results
3.3	The material shall have the following mechanical properties in annealed conditions: Yield stress – 210 mPa min Tensile strength (Yp) – 210 mPa min Elongation – 40 % min Hardness – Hv 135 to 190	P (Yield stress: 261mPa Tensile strength: 556mPa Elongation:43% Hardness: 152Hv)
4	MANUFACTURE	
4.1	Sink bowls shall have rounded corners to facilitate cleaning. Folded corners shall be welded. There shall be no sharp or rough edges adjoining working surfaces when installed.	P
4.2	Draining boards shall be grooved and shall be inclined towards the sink bowls in accordance with 2.2.2.	P
4.3	A suitable sieve to prevent large particles from entering the drain shall be provided.	P
4.4	A drain rubber plug shall be provided on every sink.	P

Abbreviations: P=Pass F=Fail NA=Not applicable NC=Not conducted

Remark: As per the manufacturer requirement, the depth and thickness of products were not assessed in this result.





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 11 of 23

Note:

Model: LS-6045	
Dimensions: (mm)	
Length×Width	600×455
Internal top dimensions (Rectangular bowl)	375×525

Model: LS-5040	
Dimensions: (mm)	
Length×Width	501×397
Internal top dimensions (Rectangular bowl)	330×430

Model: LS-7642	
Dimensions: (mm)	
Length×Width	758×420
Internal top dimensions (Rectangular bowl)	335×365

Model: LS-10050B	
Dimensions: (mm)	
Length×Width	997×498
Internal top dimensions (Rectangular bowl)	355×425

Model: LS-5745	
Dimensions: (mm)	
Length×Width	570×450
Internal top dimensions (round bowl)	364





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 12 of 23

Model: LS-4848	
Dimensions: (mm)	
Length×Width	480×480
Internal top dimensions (round bowl)	363

Model: LS-5151	
Dimensions: (mm)	
Length×Width	493×493
Internal top dimensions (round bowl)	360

Model: LS-7750	
Dimensions: (mm)	
Length×Width	770×500
Internal top dimensions (round bowl)	365

Model: LS-7540	
Dimensions: (mm)	
Length×Width	748×400
Internal top dimensions (Rectangular bowl)	335×365

Model: LS-9050	
Dimensions: (mm)	
Length×Width	898×496
Internal top dimensions (Rectangular bowl)	355×425

Model: LS-9146	
Dimensions: (mm)	
Length×Width	918×461
Internal top dimensions (Rectangular bowl)	355×425





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 13 of 23

Model: LS-8643	
Dimensions: (mm)	
Length×Width	858×430
Internal top dimensions (Rectangular bowl)	335×365

Model: LS-9643	
Dimensions: (mm)	
Length×Width	957×430
Internal top dimensions (Rectangular bowl)	355×425

Model: LS-15050S	
Dimensions: (mm)	
Length×Width	1496×498
Internal top dimensions (Rectangular bowl)	355×425

Model: LS-5545	
Dimensions: (mm)	
Length×Width	550×450
Internal top dimensions (Rectangular bowl)	380×480

Model: LS-8143D	
Dimensions: (mm)	
Length×Width	810×430
Internal top dimensions (round bowls)	350, 350





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 14 of 23

Model: LS-8050	
Dimensions: (mm)	
Length×Width	803×498
Internal top dimensions (Rectangular bowls)	350×390, 350×390

Model: LS-7843	
Dimensions: (mm)	
Length×Width	780×430
Internal top dimensions (Rectangular bowls)	340×355, 340×355

Model: LS-12050B	
Dimensions: (mm)	
Length×Width	1198×500
Internal top dimensions (Rectangular bowls)	350×390, 350×390

Model: LS-12050H	
Dimensions: (mm)	
Length×Width	1195×500
Internal top dimensions (Rectangular bowls)	360×410, 360×410

Model: LS-15050D	
Dimensions: (mm)	
Length×Width	1500×495
Internal top dimensions (Rectangular bowls)	350×368, 350×368

Model: LS-18050	
Dimensions: (mm)	
Length×Width	1798×495
Internal top dimensions (Rectangular bowls)	350×367, 350×367





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 15 of 23

Model: LS-12050A	
Dimensions: (mm)	
Length×Width	1198×498
Internal top dimensions (Rectangular bowls)	350×390, 350×390

Model: LS-12050G	
Dimensions: (mm)	
Length×Width	1195×500
Internal top dimensions (Rectangular bowls)	341×390, 341×390

Model: LS-12060GL	
Dimensions: (mm)	
Length×Width	1195×598
Internal top dimensions (Rectangular bowls)	341×390, 341×390

Model: LS-9245	
Dimensions: (mm)	
Length×Width	918×453
Internal top dimensions (Rectangular bowls)	340×380, 290×323

Model: LS-10050G3	
Dimensions: (mm)	
Length×Width	997×500
Internal top dimensions (Rectangular bowls)	337×398, 177×305, 337×398

Model: LS-13646	
Dimensions: (mm)	
Length×Width	1357×465
Internal top dimensions (Rectangular bowls)	335×395, 175×305, 335×395





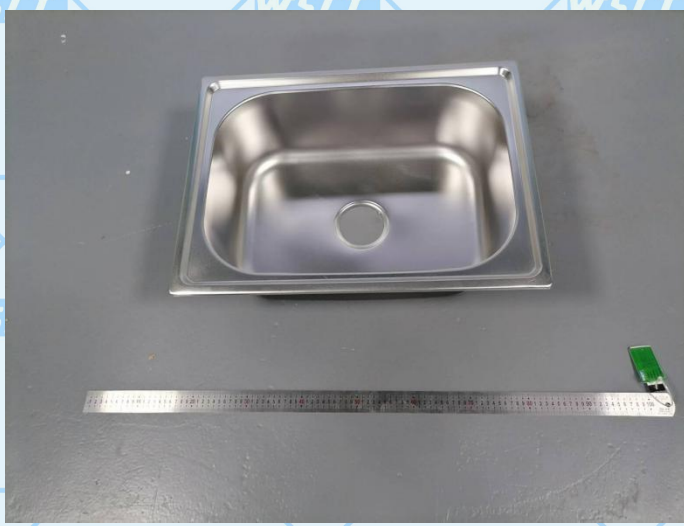
Test Report

Report No.: WSCT-HL220800003B

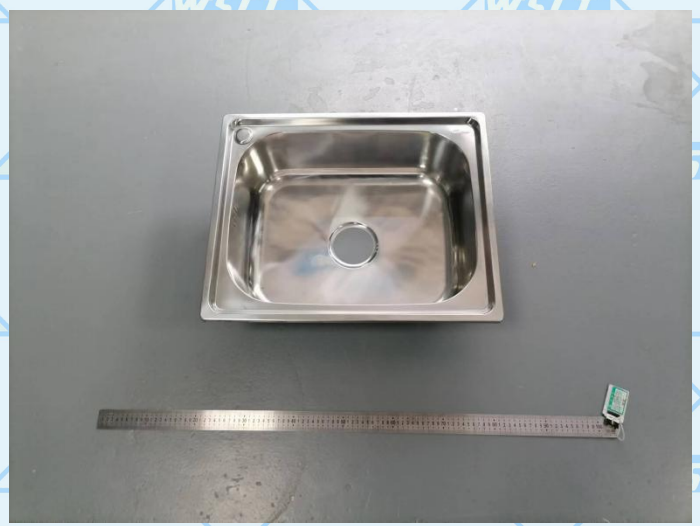
Date: 10 October 2022

Page 16 of 23

Photos of the sample



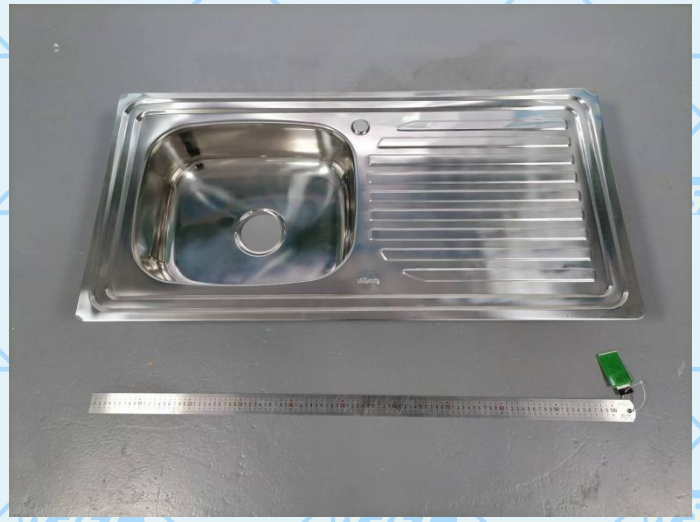
LS-6045



LS-5040



LS-7642



LS-10050B





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 17 of 23



LS-5745



LS-4848



LS-5151



LS-7750





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 18 of 23



LS-7540



LS-9050



LS-9146



LS-8643





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

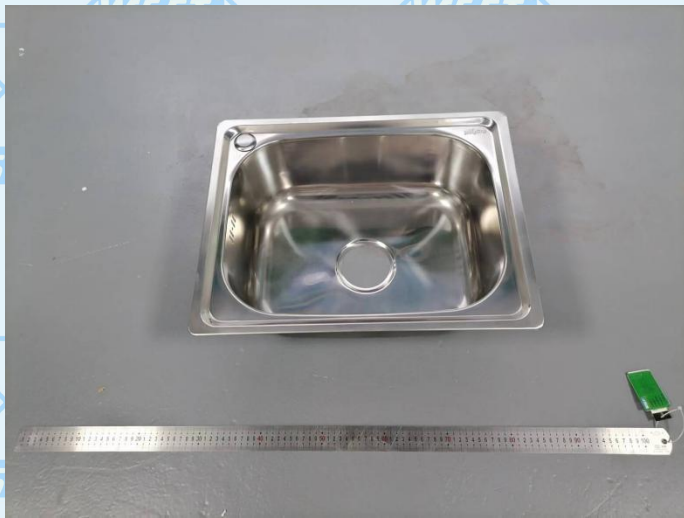
Page 19 of 23



LS-9643



LS-15050S



LS-5545



LS-8143D





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 20 of 23



LS-8050



LS-7843



LS-12050B



LS-12050H





Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 21 of 23



LS-12050A



LS-15050D



LS-18050



LS-12050G





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 22 of 23



LS-12060GL



LS-9245



LS-10050G3



LS-13646





For Question,
Please Contact with WSCT
www.wsct-cert.com

Test Report

Report No.: WSCT-HL220800003B

Date: 10 October 2022

Page 23 of 23



Waste fitting for model: LS-6045, LS-5040, LS-7642, LS-10050B, LS-5745, LS-4848, LS-5151, LS-7750, LS-7540, LS-9050, LS-9146, LS-8643, LS-9643, LS-15050S, LS-5545



Waste fitting for model: LS-8143D, LS-8050, LS-7843, LS-12050B, LS-12050H, LS-12050G, LS-15050D, LS-18050, LS-12060GL, LS-12050A, LS-9245



Waste fitting for model: LS-10050G3, LS-13646

***** End of report *****

