



## TEST REPORT

No. : XMIN1504001932PS-01

Date : Jan 08, 2016

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CUSTOMER NAME: XIAMEN HUILIYUAN IMP.&EXP.CO.,LTD  
ADDRESS: 204, NO.23-2, WANGHAI ROAD, SIMING DISTRICT, XIAMEN, FUJIAN

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : OIL DRUM  
SGS Ref. No. : GZIN1504014250MR-01, GZIN1511051132MR  
Product Specification : 5L  
Date of Receipt : Apr 14, 2015  
Date of second Receipt : Jun 17, 2015  
Date of third Receipt : Nov 24, 2015  
Testing Start Date : Apr 14, 2015  
Testing End Date : Jan 04, 2016  
Test result(s) : For further details, please refer to the following page(s)

Signed for  
SGS-CSTC Standards Technical  
Services Co. , Ltd Xiamen Branch  
Testing Center

Joy Zhang  
Authorized signatory

Note: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



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### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Design	AS/NZS 2906:2001 Section 6	See results	See results
2	Elastomeric Components	AS/NZS 2906:2001 Section 7.2 & Appendix B & ASTM D471-12a	See results	Pass
3	Mass Loss Test	AS/NZS 2906:2001 Section 7.3.1 & Appendix C	Mass Loss :0.3 % No tackiness, loss of lining adhesion and other obvious defects	Pass
4	Hydrostatic Pressure Test & Stability Test	AS/NZS 2906:2001 Section 7.3.2 , Section 7.3.3 & Appendix L	See results	Pass
5	Drop Strength Test	AS/NZS 2906:2001 Section 7.3.4 & Appendix E	See results	Pass
6	Integrity Under Exposure to Flame Test	AS/NZS 2906:2001 Section 7.3.5 & Appendix F	See result	Pass
7	Handle Strength Test	AS/NZS 2906:2001 Section 7.3.6 & Appendix H	No separation of the handle, no leakage	Pass
8	External(Vacuum) Pressure Test**	AS/NZS 2906:2001 Section 7.3.7 & Appendix C & Appendix M	See results	Pass
9	Resistance to Petroleum Test	AS/NZS 2906:2001 Section 7.4.2 & Appendix I & ASTM D638-14	See results	Pass
10	Stress Cracking Test	AS/NZS 2906:2001 Section 7.4.3 & Appendix J	See results	Pass
11	Marking*	AS/NZS 2906:2001 Section 8	See results	Pass

Note: \* means the test samples used are received in the second time.

\*\* means the test samples used are received in the third time.

Note: Pass : Meet the requirements;  
Fail : Does not meet the requirements;  
/ : Not Apply to the judgment.



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Original Sample Photo:



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1. Test Item: Design

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 6

Test Condition:

Condition: 23 ± 2 °C, 50 ± 5 % RH, 24 h

Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Requirement in AS/NZS 2906:2001 Section 6	Conclusion
Closures and Gaskets	(a) All closures shall be designed to allow effective sealing without the use of tools so that the container, other than a tank, will be hermetically sealed in normal use. Threaded closures shall be designed to seal at a torque not greater than 5 N·m. (b) Gaskets, where used, shall be installed with a retaining ring or other means of preventing accidental loss.	Pass The seal at a torque is 3.5 N·m.
Filling Opening	The filling opening shall be designed to allow free entry of common, fuel-dispensing nozzles. The opening shall be not less than 25 mm in diameter nor more than 70 mm in diameter.	Pass The diameter of filling opening is 35 mm.



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Test Item	Requirement in AS/NZS 2906:2001 Section 6	Conclusion
Pouring Opening	<p>Each container, except tanks for boats, shall be provided with a pouring opening. The pouring opening shall have an integral pouring nozzle, or shall be designed to accept a pouring nozzle. The supply of a detachable pouring nozzle with the container is optional. Means shall be provided for venting during pouring. The junction of the container and a detachable pouring nozzle, if supplied, shall not leak when liquid is poured from the container.</p> <p>To reduce hazards due to electrostatic charging of liquids, the diameter of the pouring nozzle, if supplied with the container, shall comply with the following equation(see AS/NZS 1020): <math>d \leq 640/v^2</math> where</p> <p><math>d</math> = diameter of pouring nozzle, in millimetres</p> <p><math>v</math> =flow velocity of liquid, in meters per second (0.04 m/s Provided by client)</p>	<p>Pass</p> <p>The diameter of pouring opening is 15 mm</p>
Pouring Vent	<p>A pouring vent shall be incorporated in portable fuel containers (other than tanks) to provide a smooth pouring action without undue pulsation. The pouring vent shall be a second opening or the pouring nozzle shall be vented.</p>	<p>Pass</p>
Breathing Vent	<p>A breathing vent shall be incorporated in demountable fuel tanks for boats to provide a smooth fuel withdrawal without undue pulsation.</p>	<p>Pass</p>



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Test Item	Requirement in AS/NZS 2906:2001 Section 6	Conclusion
Handle	A handle shall be provided. It shall either be an integral part of the container or be secured permanently to the container. The handle shall be located so that it may be used for both carrying and pouring.	Pass
Nominal Capacity Fill Level	A fuel container shall have an embossed or moulded graduation or other suitable means to accurately indicate its fill level when filled to the nominal capacity. The nominal fill level is the recommended fill level.	Pass
Capacity of Container	The container shall have an overflow capacity, to the lowest opening, not less than 105% of the nominal capacity.	Pass Overflow capacity:119 %
Fuel Indicator	It is recommended that fuel tanks for boats be equipped with a suitable fuel level indicating device.	NA
Pouring Nozzle	Where a separate pouring nozzle is supplied, provision shall be made for securing the nozzle to the container or incorporating it in the container.	Pass
Colour	The external surface of the finished container may be of any colour.	The colour is red.



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### 2. Test Item: Elastomeric Components

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.2 & Appendix B & ASTM D471-12a

Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Test Condition	Test Result		Requirement in AS/NZS 2906:2001 Section 7.2	Conclusion
Appearance	Immersion condition: ASTM Reference Fuel C, 23±2 °C, 168 h	Sample #1	No evidence of cracking or visible deterioration	No evidence of cracking or visible deterioration	Pass
		Sample #2	No evidence of cracking or visible deterioration	No evidence of cracking or visible deterioration	Pass
Change in Volume	Immersion condition: Immersion in ASTM Reference Fuel C, 23±2 °C, 168 h→ Fresh Fuel C, 23±2 °C, 30 min. Test condition: Deionized water, 23±2 °C	Sample #1	15.0 %	A change in volume not greater than 40% swelling or 1% shrinkage	Pass
		Sample #2	8.1 %		
Mass Loss (Extraction)	Immersion condition: Immersion in ASTM Reference Fuel C, 23±2 °C, 168 h→40 °C, 20 kPa vacuum pressure to constant mass	Sample #1	3.1 %	A mass loss (extraction) of not greater than 10%	Pass
		Sample #2	2.2 %		



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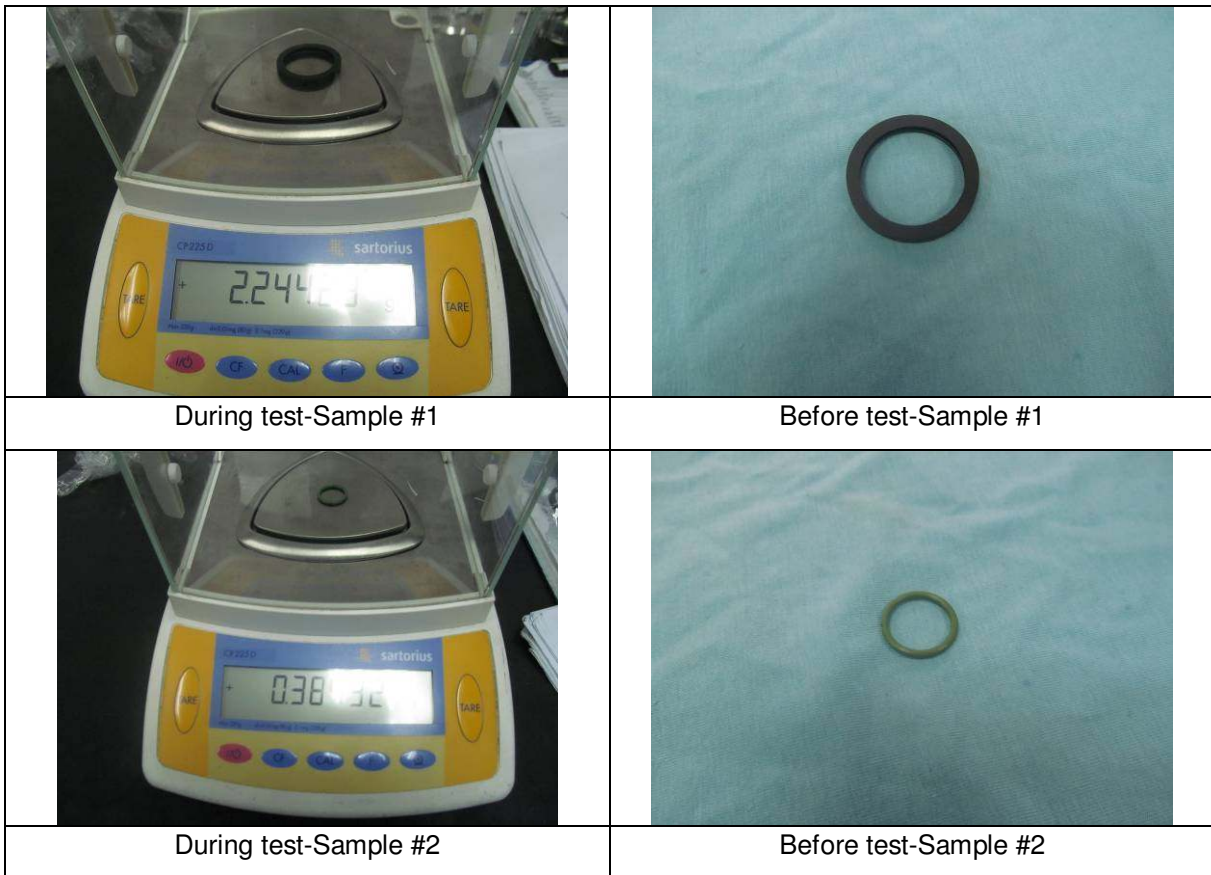
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Note:

1. Change in Volume, %=(Volume after immersion - Volume before immersion)/ Volume before immersion × 100.
2. Mass Loss, %=( Value before immersion - Value after immersion)/ Value before immersion×100.
3. ASTM Reference Fuel C: 50 % ISO-Octane and 50 %Toluene by volume.

Test Photo:



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### 3. Test Item: Mass Loss Test

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.3.1 & Appendix C

Test Condition:

Condition: Fill with ASTM Reference Fuel B, 23±2 °C, 30 days

Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Test Result	Requirement in AS/NZS 2906:2001 Section 7.3.1	Conclusion
Mass Loss Test	Mass Loss :0.3 % No tackiness, loss of lining adhesion and other obvious defects	The mass Loss shall not exceed 1 % and all surfaces, when examined, shall show no evidence of tackiness, loss of lining adhesion or other obvious defects	Pass

Note:

1. Mass loss, % = ( Mass before filling - Mass after filling)/ Mass before filling×100.

2. ASTM Reference Fuel B: 70 % Iso-octane and 30 %Toluene by volume.

Test Photo:



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### 4. Test Item: Hydrostatic Pressure Test & Stability Test

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.3.2 & Section 7.3.3 & Appendix L

Test Condition:

- Condition: ① After test item 3, empty the sample and stabilize at  $23 \pm 2$  °C for 24 h
- ② Fill with 60 °C water, 120 kPa hydraulic pressure, 5 min → 180 kPa hydraulic pressure, 30 min
- ③ Empty the sample and stabilize at  $23 \pm 2$  °C for 24 h

Lab Environmental Condition:  $23 \pm 2$  °C,  $50 \pm 5$  % RH

Test Result:

Test Item	Test Result	Requirement in AS/NZS 2906:2001 Section 7.3.2	Conclusion
Hydrostatic Pressure Test	No evidence of leakage	No evidence of leakage	Pass
Stability Test	The specimens remain on its base unsupported	The specimen shall remain on its base unsupported	Pass

Test Photo:





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5. Test Item: Drop Strength Test

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.3.4 & Appendix E

Test Condition:

Condition: ①After test item 3, empty the specimen and stabilize at 23±2 °C for 24 h

②Fill with water, -18 °C, 2 h →Take out and do the test immediately

Drop height: 1200 mm

Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Test Result		Requirement in AS/NZS 2906:2001 Section 7.3.4	Conclusion
Drop Strength Test	Direction 1	No rupture, no leakage	Specimen shall show no sign of rupture or leakage after the specimen has been vented and left to stand for a period of not less than 5 min.	Pass
	Direction 2	No rupture, no leakage		
	Direction 3	No rupture, no leakage		
	Direction 4	No rupture, no leakage		
	Direction 5	No rupture, no leakage		
	Direction 6	No rupture, no leakage		

Test Photo:



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## 6. Test Item: Integrity Under Exposure to Flame Test

Test Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.3.5 & Appendix F

Test Condition: Round test tray: 600mm in diameter, 13mm high

2.5L motor spirit in the fuel container

0.75L motor spirit in the round test tray

Test Result:

Test Item	Test Result		Requirement in AS/NZS 2906:2001 Section 7.3.5	Conclusion
Determination of integrity of fuel containers when exposed to flame	Sample 1	The sample doesn't lose its integrity in 30s and doesn't explode in 90s	Sample shall have a time to 'loss of integrity' of not less than 30 s and shall not explode in less than 90 s.	Pass
	Sample 2	The sample doesn't lose its integrity in 30s and doesn't explode in 90s		
	Sample 3	The sample doesn't lose its integrity in 30s and doesn't explode in 90s		
	Sample 4	The sample doesn't lose its integrity in 30s and doesn't explode in 90s		

Remark: 1. According to AS/NZS 2906: 2001 7.3.5, when a sample is tested in accordance with Appendix F, it shall have a time to 'loss of integrity' of not less than 30 s and shall not explode in less than 90 s. According to AS/NZS 2906: 2001 4.6, integrity is defined as follow:

The state of being whole or entire. A fuel container is considered to have lost its integrity when it ceases to contain the fuel or its vapour.

Note: Samples are fused in the burning process.



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Test Photo:



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7. Test Item: Handle Strength Test

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.3.6 & Appendix H

Test Condition:

Condition: After test item 5, fill with 5 L water, 23±2 °C

Drop height: 300 mm

Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Test Result	Requirement in AS/NZS 2906:2001 Section 7.3.6	Conclusion
Handle Strength Test	No separation of the handle, no leakage	There shall be no complete separation of the handle at any point of attachment to the specimen, nor there shall be any leakage from the specimen. When evidence of partial separation of the handle of the specimen is present, the test shall be repeated once more, as specified, on the same handle of that specimen. There shall be no further separation after the repeated test.	Pass



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Test Photo:



8. Test Item: External(Vacuum) Pressure Test

Sample Description: See photo\*\*

Test Method: AS/NZS 2906:2001 Section 7.3.7 & Appendix C & Appendix M

Test Condition:

Condition: ① Fill with ASTM Reference Fuel B, 23±2 °C, 30 days

- ② Empty the sample and secure the closures. Tighten threaded closures to a torque of 5 N.m.
- ③ Decrease the internal pressure uniformly to -55kPa during a period of 30 s to 60 s.
- ④ Maintain -55kPa for 5 min
- ⑤ Prior to decreasing the pressure examine the sample for distortion
- ⑥ Release the negative pressure
- ③~⑥ as a cycle, total 3 cycles → 23±2°C, 50±5%RH, 3 h

Lab Environmental Condition: 23±2°C, 50±5%RH



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Test Result:

Test Item	Test Result	Requirement in AS/NZS 2906:2001 Section 7.3.7	Conclusion
External(Vacuum) Pressure Test	<p>The permanent distortion was 5.2 %, but no leakage which did not render them unsuitable for use as refillable containers.</p> <p>The post test brimful capacity exceeds the nominal capacity.</p> <p>Nominal capacity:5 L</p> <p>Brimful capacity before test: 5.80 L</p> <p>Brimful capacity after test: 5.50 L</p>	<p>There shall be no evidence of permanent distortion (collapse) or leakage which render them unsuitable for use as refillable containers.</p> <p>The post test brimful capacity shall exceed the nominal capacity.</p>	Pass

Note:

1. Permanent distortion, % = (Brimful capacity before test- Brimful capacity after test) /Brimful capacity before test×100
2. ASTM Reference Fuel B: 70 % Iso-octane and 30 %Toluene by volume.
3. \*\* means the test samples used are received in the third time.



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Photo:



During test



After test



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### 9. Test Item: Resistance to Petroleum Test

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.4.2 & Appendix I & ASTM D638-14

Test Condition:

As received condition:  $23 \pm 2$  °C,  $50 \pm 5$  % RH, 24 h

Condition 1: Fill with ASTM Reference Fuel C, 38 °C, 30 d→ Fresh ASTM Reference Fuel C, 30 min

Condition 2: Fill with the mixture of fuel (see note 2), 38 °C, 30 days→ Fresh mixture of fuel, 30 min

Specimen: Type IV

Testing speed: 50 mm/min

Gauge length: 25 mm

Lab Environmental Condition:  $23 \pm 2$  °C,  $50 \pm 5$  % RH



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Test Result:

Test Item	Test Result		Requirement in AS/NZS 2906:2001 Section 7.3.2	Conclusion
Tensile Strength	As received	24.1 MPa	/	/
	After filling with ASTM Reference Fuel C	23.0 MPa	/	/
	Retention rate	95.4 %	≥85 %	Pass
	After filling with mixture of fuel	21.9 MPa	/	/
	Retention rate	90.9 %	≥85 %	Pass
Elongation at Break	As received	690 %	/	/
	After filling with ASTM Reference Fuel C	800 %	/	/
	Retention rate	115.9 %	≥85 %	Pass
	After filling with mixture of fuel	630 %	/	/
	Retention rate	91.3 %	≥85 %	Pass

Note:

1. ASTM Reference Fuel C: 50 % ISO-Octane and 50 %Toluene by volume.
2. Mixture of fuel: ASTM Reference Fuel A /IRM 903 oil=16: 1(V/V).
3. Retention rate, %=Value after filling with Petroleum/Value as received×100.
4. All specimens were cut from the sample.



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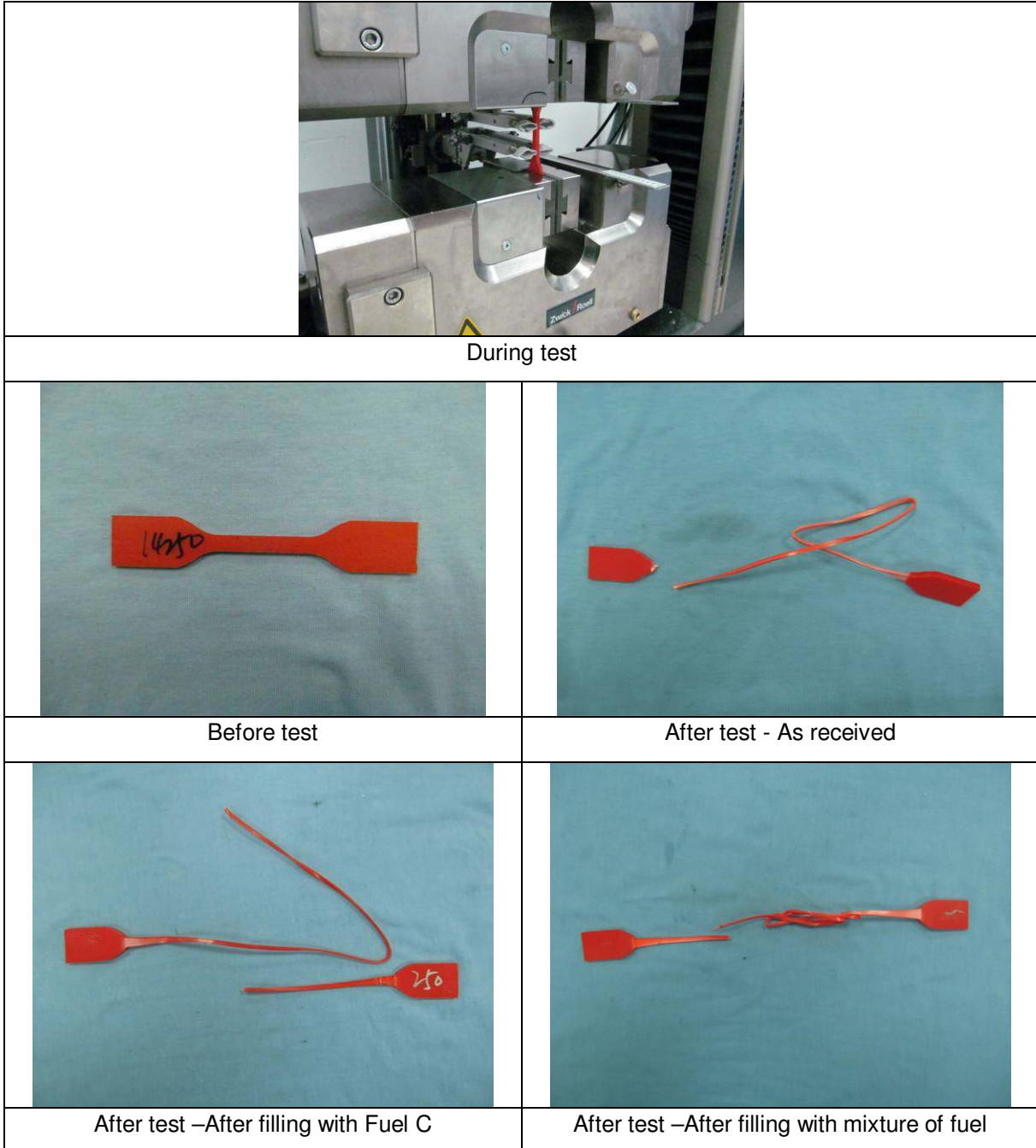
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Test Photo:



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10. Test Item: Stress Cracking Test

Sample Description: See photo

Test Method: AS/NZS 2906:2001 Section 7.4.3 & Appendix J

Test Condition:

Condition: Fill with 60 °C 10% OP-10 solution, with two specimens downward and two specimens upward in storage, 60 °C, 120 h→Empty the sample and fill with air and keep the pressure at 20 kPa

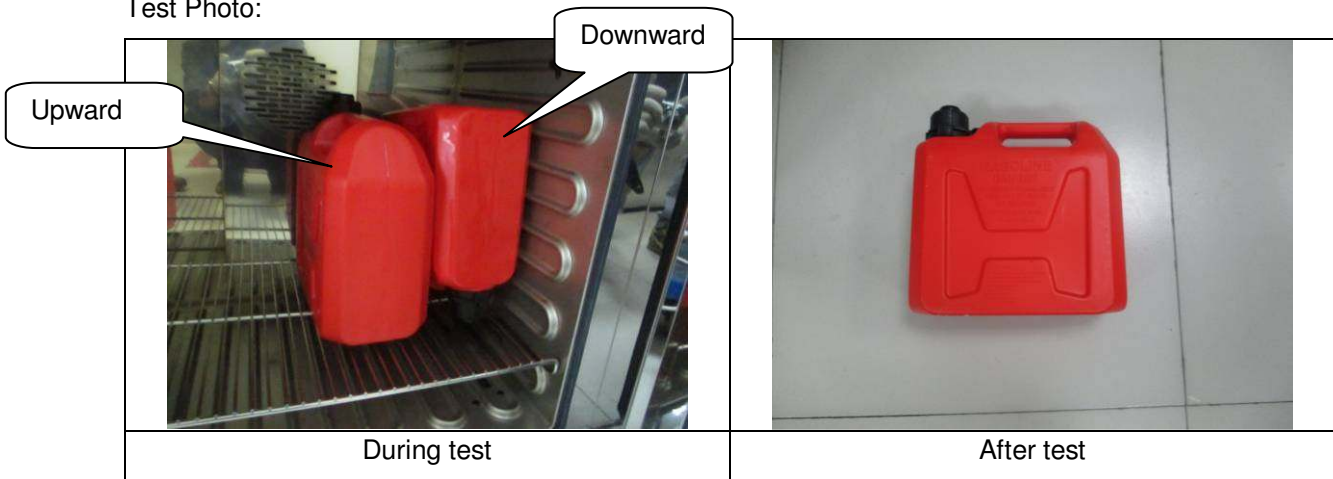
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result		Requirement in AS/NZS 2906:2001 Section 7.4.3	Conclusion
Stress Cracking Test	Downward	No leakage, no crack	Shall not crack.	Pass
	Upward	No leakage, no crack		

Note: OP-10: C<sub>9</sub>H<sub>19</sub>(C<sub>6</sub>H<sub>4</sub>)(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>OH.

Test Photo:



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11. Test Item: Marking

Sample Description: See photo\*

Test Method: AS/NZS 2906:2001 Section 8

Test Condition:

Condition: 23 ± 2 °C, 50 ± 5 % RH, 24 h

Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Requirement in AS/NZS 2906:2001 Section 8	Conclusion
<p>Each container shall be dumbly and indelibly marked (e.g. embossed or moulded) with the following, in characters not less than 3 mm in height for capital letters and for lower case letters with an ascender or descender, or not less than 2 mm in height for lower case letters without an ascender or descender:</p> <p>(a) Manufacturer's name or registered trademark.</p> <p>(b) Nominal capacity, in litres, in conjunction with a mark indicating that level</p> <p>(c) An indication of the year of manufacture of the container and, for plastics containers, also the month of manufacture.</p>	<p>PASS</p> <p>The letters are embossed, the minimum capital letter height is 2.14 mm, No lower case letter.</p> <p>(a) "SEAFLO"</p> <p>(b) "NOM.CAP.5L"</p> <p>(c) "Apr, 2015"</p>
<p>Each container shall display the following:</p> <p>(i) A word indicating the hazardous nature of the contents of the container, i.e. "Warning", "Danger", or "Caution".</p> <p>(ii) The warnings, "Vapour may cause flash fire" or similar, "Fuel only" or similar, and "Flammable".</p> <p>(iii) Any phrase indicating appropriate cautionary statements, e.g. "Keep out of the reach of children", "Not suitable for racing fuel".</p> <p>(iv) First aid information, which shall include advice on actions to be taken if fuel is swallowed, inhaled, or comes in contact with the skin or eyes, e.g. as required by the National Health and Medical Research Council.</p>	<p>PASS</p> <p>(i) "DANGER"</p> <p>(ii) "FLAMMABLE"</p> <p>(iii) "KEEP OUT OF THE REACH OF CHILDREN"</p> <p>(iv) "IF SWALLOWED, DO NOT VOMITING GIVE A GLASS OF WATER REMOVE VICTIM FROM CONTAMINATED AREA"</p>

Note: \* means the test samples used are received in the second time.



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Test Photo:



Note: 1. The test item 1~7, 9~11 were carried out by SGS(GUANGZHOU) internal laboratory.  
 2. This report is to supersede test report No. XMIN1504001932PS.  
 \*\*\*\*\* End of report\*\*\*\*\*



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