

BREAKING LOAD TEST CONVEYOR CHAIN CULLENS

TAHUN 2015

Pada tanggal 16 September tahun 2015 telah dilakukan Test Breaking Load untuk Chain Conveyor CULLENS di TUV SUD SINGAPURA

Adapun Chain Conveyor yang dilakukan test :

NO	Type	Description	Link	Lenght
1	ST 128 26.000 Lbf	4 Inch Solid Tee Pin 26.000 Lbf	5	508 mm
2	ST 628 50.000 Lbf	6 Inch Solid Tee Pin 50.000 Lbf	5	762 mm
3	ST 628 70.000 Lbf	6 Inch Solid Tee Pin 70.000 Lbf	5	762 mm

1 kn = 224.81 Lbs

Berikut hasil test Breaking Load :

NO	Type	Breaking load	Maksimal Load (Hasil Test)
1	ST 128 26.000 Lbf	26.000 Lbf	34.868 Lbf
2	ST 628 50.000 Lbf	50.000 Lbf	70.185 Lbf
3	ST 628 70.000 Lbf	70.000 Lbf	74.142 Lbf

Data Test dari TUV SUD Singapura terlampir

Test Report No. 7191121180-MEC15-SL
dated 16 SEP 2015



PSB Singapore

Note: This report is issued subject to TÜV SÜD PSB's "Terms and Conditions Governing Technical Services".
The terms and conditions governing the issue of this report are set out as attached within this report.

SUBJECT:

Breaking Load Test on Conveyor Chain

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Komplek TOHO Block A/21 – Pantai Indah kapuk
Jakarta Utara – Indonesia

Attn: Mr. Anto

SAMPLE SUBMISSION DATE:

01/09/2015

SAMPLE DESCRIPTION:

The following samples claim to be "Cullens" brand were submitted by:

1. ST628 70,000lbs
2. ST628 50,000lbs
3. ST128 26,000lbs



Photo.1 – Typical Sample received



Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002887R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
TUV®

Test Report No. 7191121180-MEC15-SL
dated 16 SEP 2015



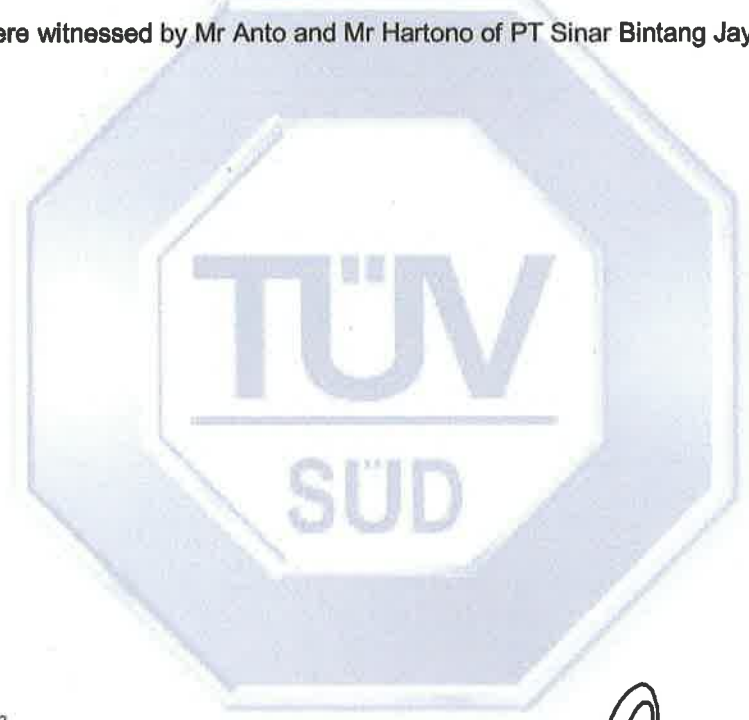
TEST METHOD:

The conveyor chain was fitted to the test fixture held by the jaw of the Universal Machine (refer to photo 2). Tension load was gradually applied until failure occurred and the maximum force was then recorded.

TEST RESULT:

Sample reference	ST628 70,000lbs	ST628 50,000lbs	ST128 26,000lbs
Max Load (kN)	329.8	312.2	155.1
Mode of failure	Break at link plate (refer to photo 3)	Break at link plate (refer to photo 4)	Break at link plate (refer to photo 5)

The above tests were witnessed by Mr Anto and Mr Hartono of PT Sinar Bintang Jaya Makmur
On 15th Sep 2015.



Sean Loh
Associate Engineer

Oh Heng Hwa
Executive Engineer
Industrial Group
Mechanical Centre

APPENDIX:



Photo. 2 – Typical Test Set Up



Photo. 3 – Mode of failure (ST628 - 70,000lbs)

Signature

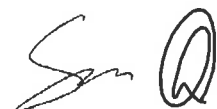
APPENDIX (con't):



Photo. 4 – Mode of failure (ST628 - 50,000lbs)



Photo. 4 – Mode of failure (ST128 - 26,000lbs)



Test Report No. 7191121180-MEC15-SL
dated 16 SEP 2015



PSB Singapore

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5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011



BREAKING LOAD TEST CONVEYOR CHAIN CULLENS

TAHUN 2015

Pada tanggal 16 September tahun 2015 telah dilakukan Test Breaking Load untuk Chain Conveyor CULLENS di TUV SUD SINGAPURA

Adapun Chain Conveyor yang dilakukan test :

NO	Type	Description	Link	Lenght
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1 kn = 224.81 Lbs

Berikut hasil test Breaking Load :

NO	Type	Breaking load	Maksimal Load (Hasil Test)
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Data Test dari TUV SUD Singapura terlampir

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TESTED FOR:

PT Sinar Bintang Jaya Makmur
Komplek TOHO Block A/21 – Pantai Indah kapuk
Jakarta Utara – Indonesia

Attn: Mr. Anto

SAMPLE SUBMISSION DATE:

01/09/2015

SAMPLE DESCRIPTION:

The following samples claim to be "Cullens" brand were submitted by:

1. ST628 70,000lbs
2. ST628 50,000lbs
3. ST128 26,000lbs



Photo.1 – Typical Sample received



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PSB Singapore

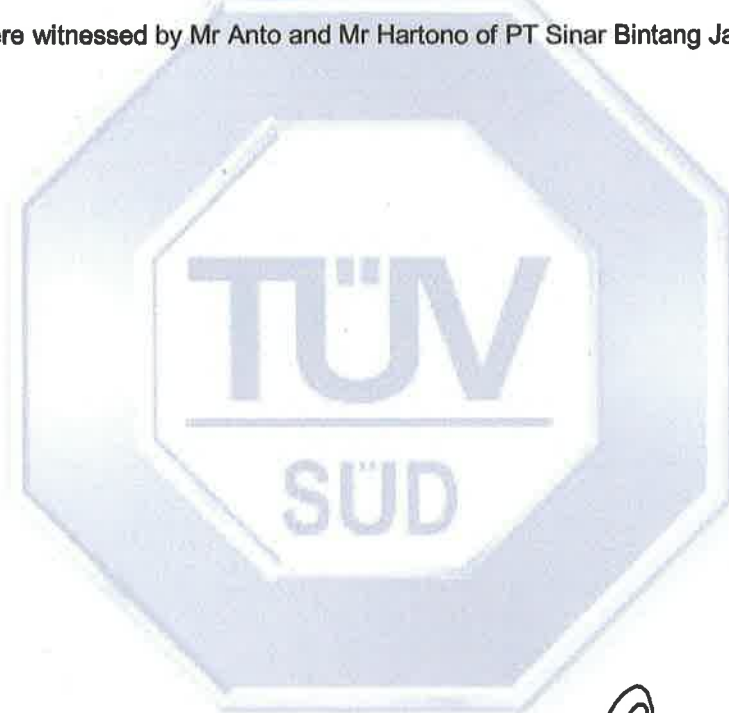
TEST METHOD:

The conveyor chain was fitted to the test fixture held by the jaw of the Universal Machine (refer to photo 2). Tension load was gradually applied until failure occurred and the maximum force was then recorded.

TEST RESULT:

Sample reference	ST628 70,000lbs	ST628 50,000lbs	ST128 26,000lbs
Max Load (kN)	329.8	312.2	155.1
Mode of failure	Break at link plate (refer to photo 3)	Break at link plate (refer to photo 4)	Break at link plate (refer to photo 5)

The above tests were witnessed by Mr Anto and Mr Hartono of PT Sinar Bintang Jaya Makmur
On 15th Sep 2015.



Sean Loh
Associate Engineer

Oh Heng Hwa
Executive Engineer
Industrial Group
Mechanical Centre

APPENDIX:



Photo. 2 – Typical Test Set Up



Photo. 3 – Mode of failure (ST628 - 70,000lbs)

Signature

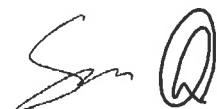
APPENDIX (con't):



Photo. 4 – Mode of failure (ST628 - 50,000lbs)



Photo. 4 – Mode of failure (ST128 - 26,000lbs)



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July 2011



BREAKING LOAD TEST CONVEYOR CHAIN CULLENS

TAHUN 2023

Pada tanggal 4 Oktober tahun 2023 telah dilakukan Update Test Breaking Load Chain Conveyor CULLENS di TUV SUD SINGAPURA

Adapun Chain Conveyor yang update di test :

NO	Type	Description	LINK	LENGHT
1	HC 128 28.000 Lbf	4 Inch Hollow Pin 28.000 Lbf	5	508 mm
2	ST 128 26.000 Lbf	4 Inch Solid Tee Pin 26.000 Lbf	5	508 mm
3	HC 628 50.000 Lbf	6 Inch Hollow Pin 50.000 Lbf	5	762 mm
4	ST 628 50.000 Lbf	6 Inch Solid Tee Pin 50.000 Lbf	5	762 mm
5	ST 628 70.000 Lbf	6 Inch Solid Tee Pin 70.000 Lbf	5	762 mm

1 kn = 224,81 Lbs

Berikut hasil test breaking Load

NO	Type	Breaking load	Maksimal Load (Hasil Test)
1	HC 128 28.000 Lbf	28.000 Lbf	36.787 Lbf
2	ST 128 26.000 Lbf	26.000 Lbf	34.703 Lbf
3	HC 628 50.000 Lbf	50.000 Lbf	66.655 Lbf
4	ST 628 50.000 Lbf	50.000 Lbf	65.099 Lbf
5	ST 628 70.000 Lbf	70.000 Lbf	75.311 Lbf

Data Test dari TUV SUD Singapura terlampir

Test Report No. 7191319963-MEC23/05-TYX
dated 04 OCT 2023



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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 4" HC 128 Hollow – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspection was then observed after the test.

DATE OF TEST:

27 September 2023

TEST LOCATION:

TÜV SÜD PSB Pte Ltd
60 Tuas South Street 1
Singapore 639925



Laboratory:
TÜV SÜD PSB Pte. Ltd.
15 International Business Park
TÜV SÜD @ IBP
Singapore 609937

Phone : +65-6778 7777
E-mail: info.sg@tuvsud.com
<https://www.tuvsud.com/sg>
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
15 International Business Park
TÜV SÜD @ IBP
Singapore 609937
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APPENDIX:



Photo 1: Sample received

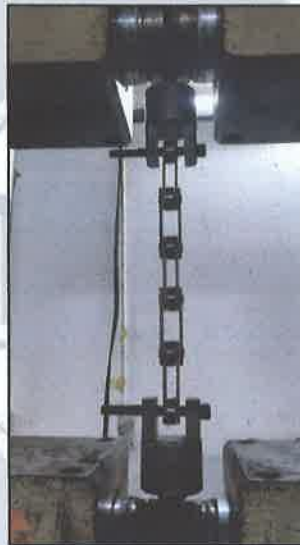


Photo 2: Test setup



Photo 3: Sample after test



Test Report No. 7191319963-MEC23/05-TYX
dated 04 OCT 2023

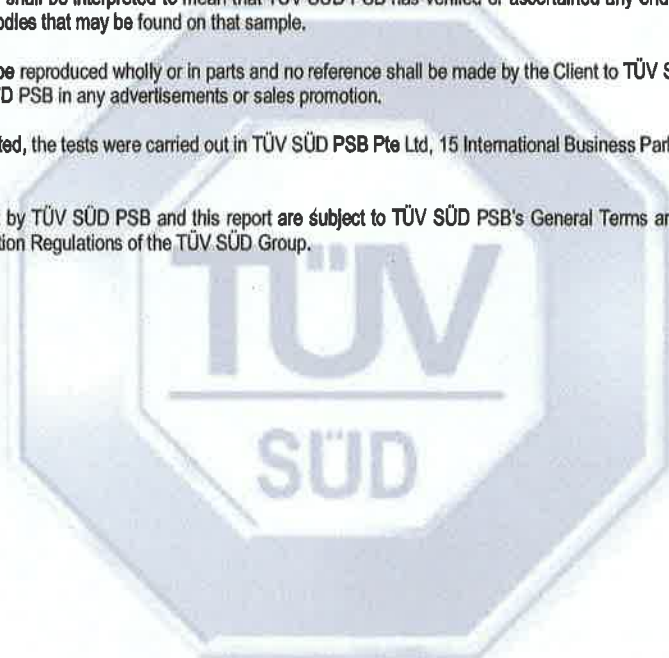


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Effective 26 January 2021



Test Report No. 7191319963-MEC23/04-TYX
dated 04 OCT 2023



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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 4" ST 128 – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

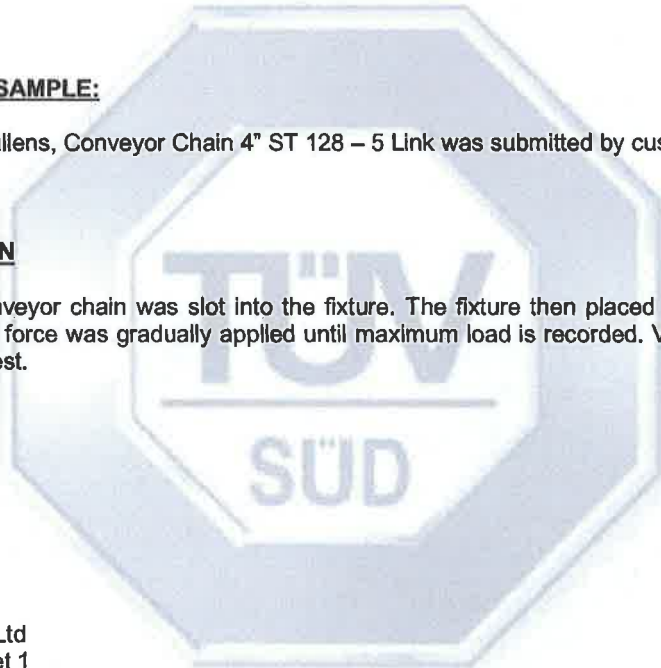
Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspection was then observed after the test.

DATE OF TEST:

27 September 2023

TEST LOCATION:

TÜV SÜD PSB Pte Ltd
60 Tuas South Street 1
Singapore 639925



TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
15 International Business Park
TÜV SÜD @ IBP
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dated 04 OCT 2023



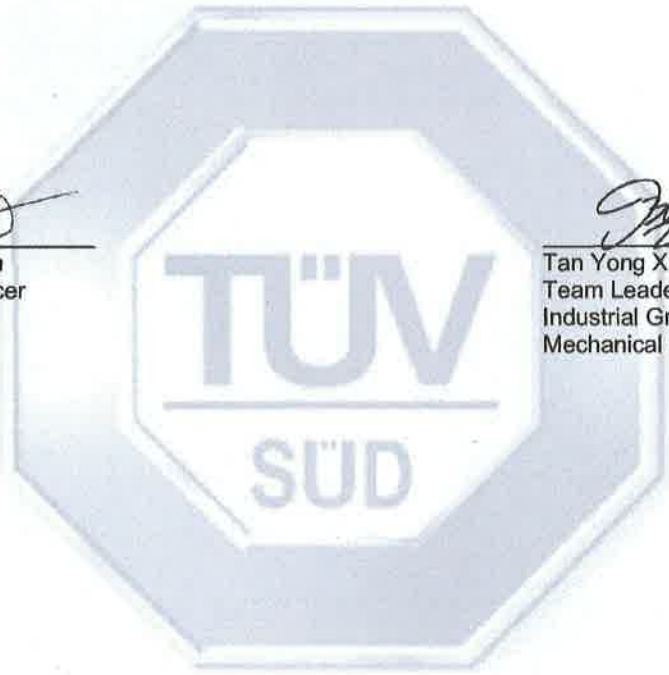
PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 4" ST 128 – 5 Link
Maximum Load (lbf)	34703
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer


Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre



APPENDIX:



Photo 1: Sample received

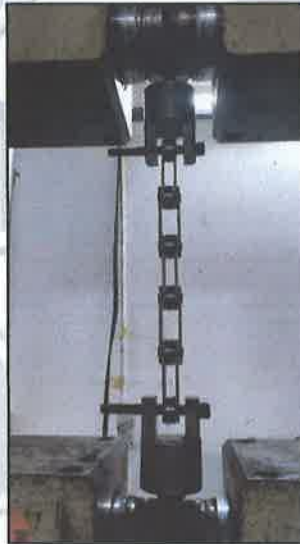
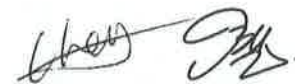


Photo 2: Test setup



Photo 3: Sample after test



Test Report No. 7191319963-MEC23/04-TYX
dated 04 OCT 2023

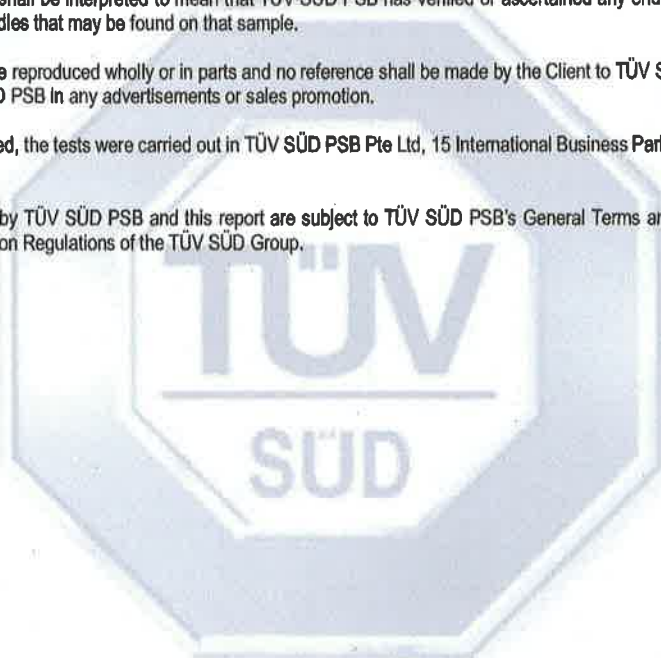


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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 6" HC 628 Hollow Pin – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspection was then observed after the test.

DATE OF TEST:

20 September 2023

TEST LOCATION:

TÜV SÜD PSB Pte Ltd
60 Tuas South Street 1
Singapore 639925



TÜV SÜD PSB

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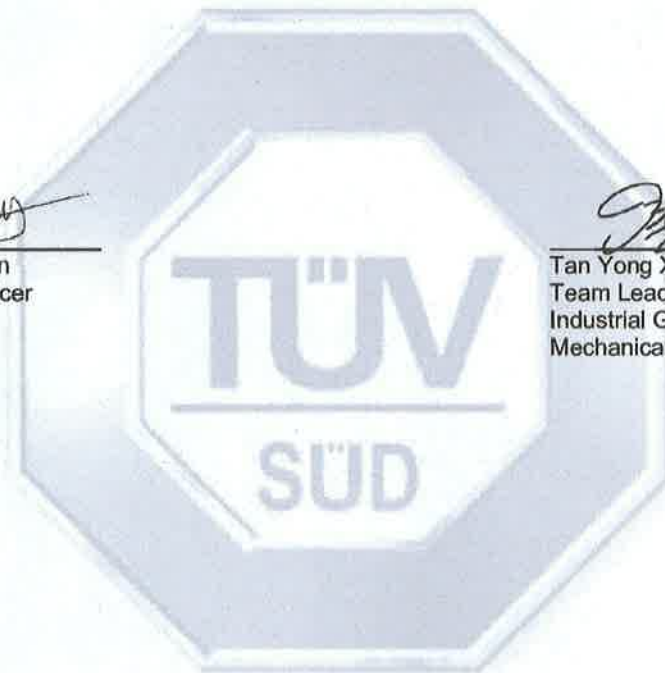
PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 6" HC 628 Hollow Pin – 5 Link
Maximum Load (lbf)	66655
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer


Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre



APPENDIX:



Photo 1: Sample received



Photo 2: Test setup



Photo 3: Sample after test



**Test Report No. 7191319963-MEC23/01-TYX
dated 04 OCT 2023**

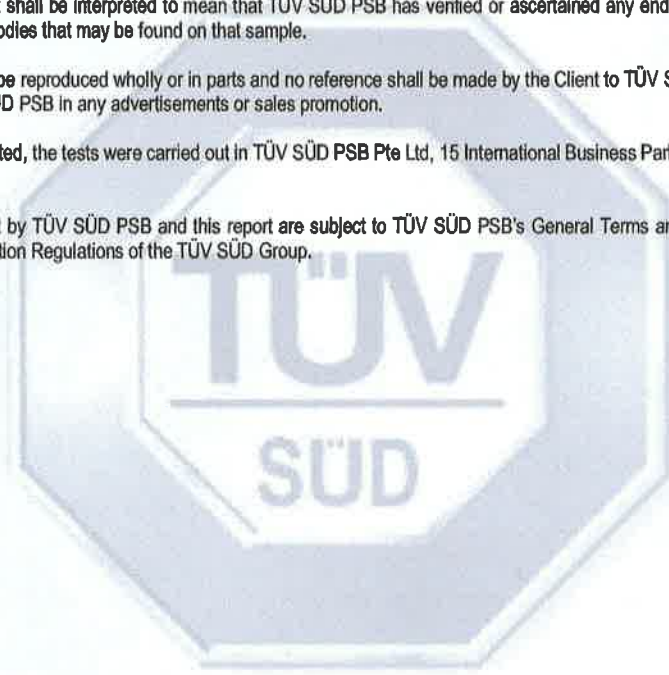


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Test Report No. 7191319963-MEC23/02-TYX
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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 6" ST 628 EL 50 – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

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DATE OF TEST:

20 September 2023

TEST LOCATION:

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60 Tuas South Street 1
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dated 04 OCT 2023




PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 6" ST 628 EL 50 – 5 Link
Maximum Load (lbf)	65099
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer


Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre



APPENDIX:



Photo 1: Sample received



Photo 2: Test setup



Photo 3: Sample after test



Test Report No. 7191319963-MEC23/02-TYX
dated 04 OCT 2023

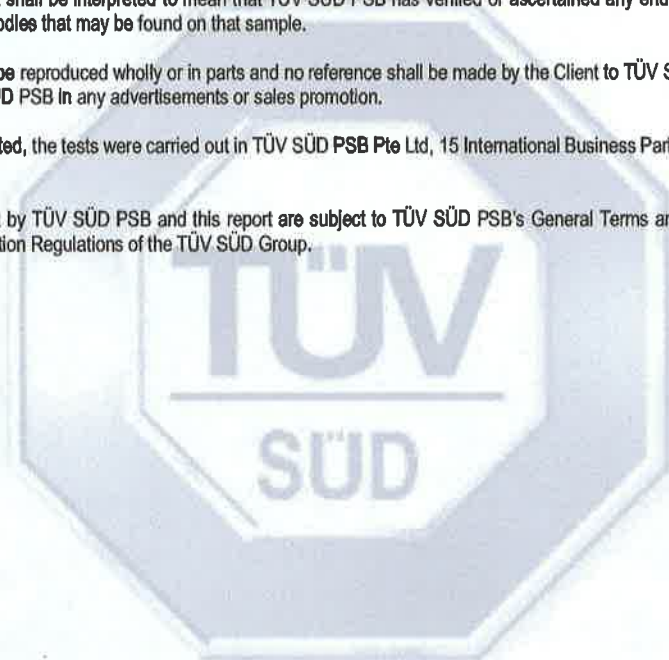


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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 6" ST 628 EL 70 – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

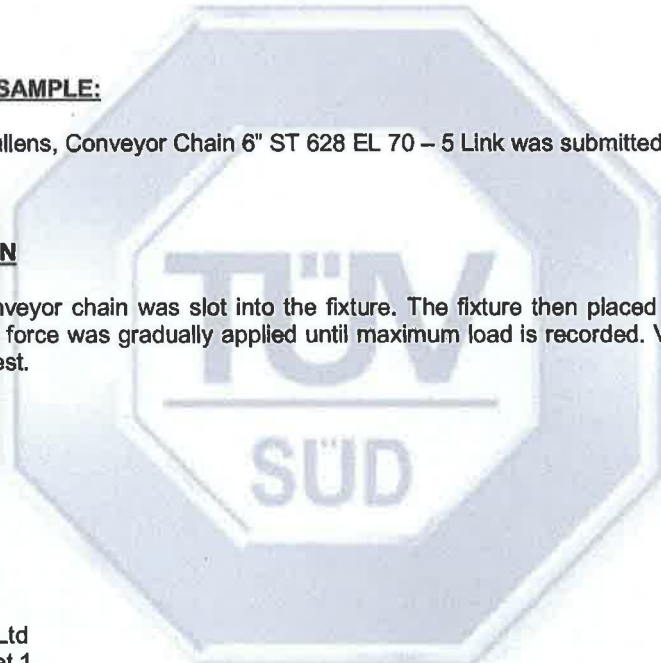
Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspection was then observed after the test.

DATE OF TEST:

20 September 2023

TEST LOCATION:

TÜV SÜD PSB Pte Ltd
60 Tuas South Street 1
Singapore 639925



TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
15 International Business Park
TÜV SÜD @ IBP
Singapore 609937

Phone : +65-6778 7777
E-mail: info.sg@tuvsud.com
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Co. Reg : 199002667R

Regional Head Office:
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Singapore 609937
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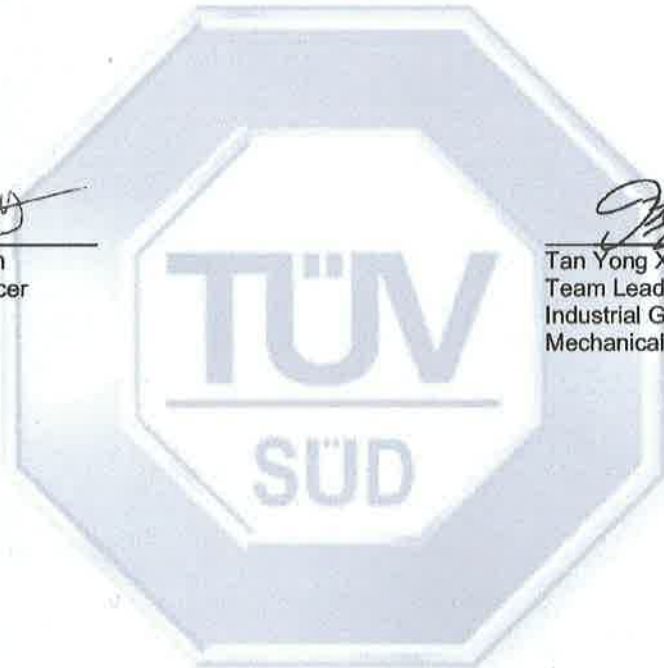
PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 6" ST 628 EL 70 – 5 Link
Maximum Load (lbf)	75311
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer


Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre



APPENDIX:



Photo 1: Sample received



Photo 2: Test setup



Photo 3: Sample after test



Test Report No. 7191319963-MEC23/03-TYX
dated 04 OCT 2023

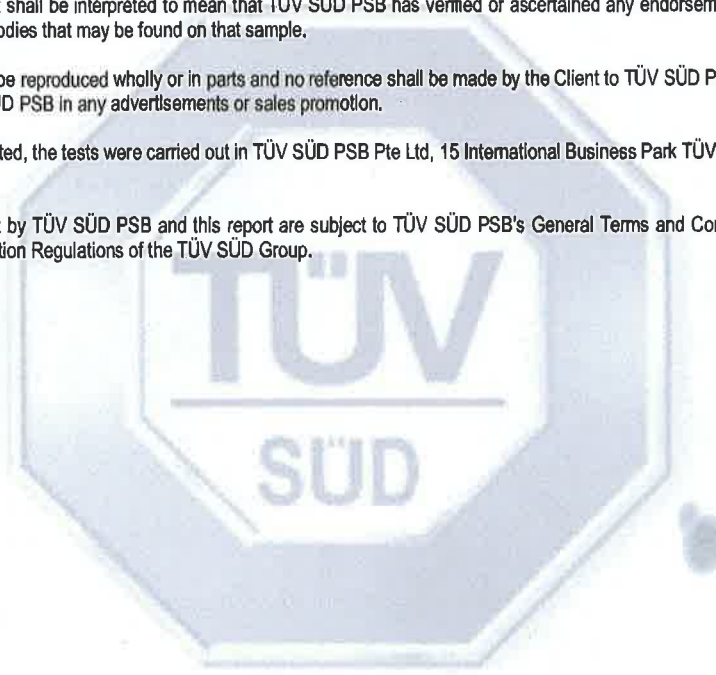


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Test Report No. 7191319963-MEC23/05-TYX
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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 4" HC 128 Hollow – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

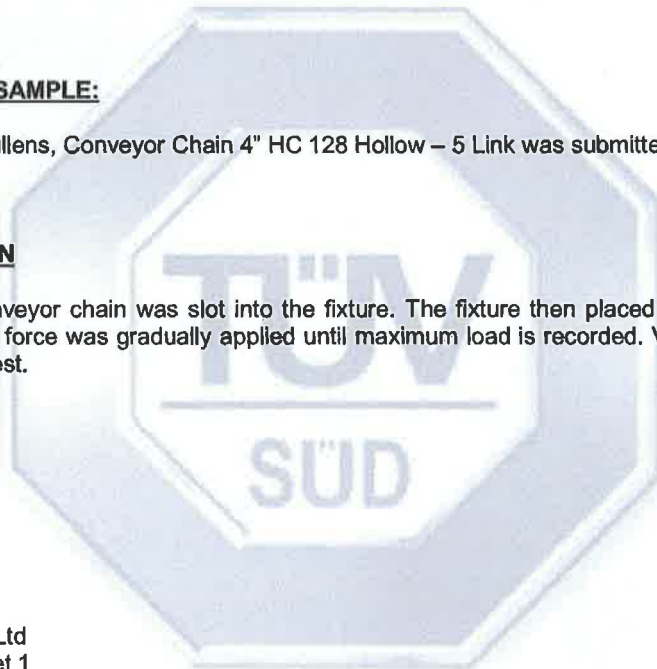
Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspection was then observed after the test.

DATE OF TEST:

27 September 2023

TEST LOCATION:

TÜV SÜD PSB Pte Ltd
60 Tuas South Street 1
Singapore 639925



Laboratory:
TÜV SÜD PSB Pte. Ltd.
15 International Business Park
TÜV SÜD @ IBP
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15 International Business Park
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APPENDIX:



Photo 1: Sample received

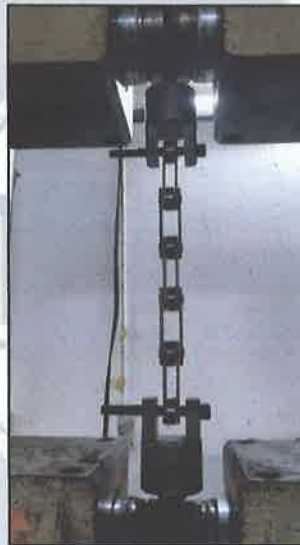


Photo 2: Test setup



Photo 3: Sample after test



Test Report No. 7191319963-MEC23/05-TYX
dated 04 OCT 2023

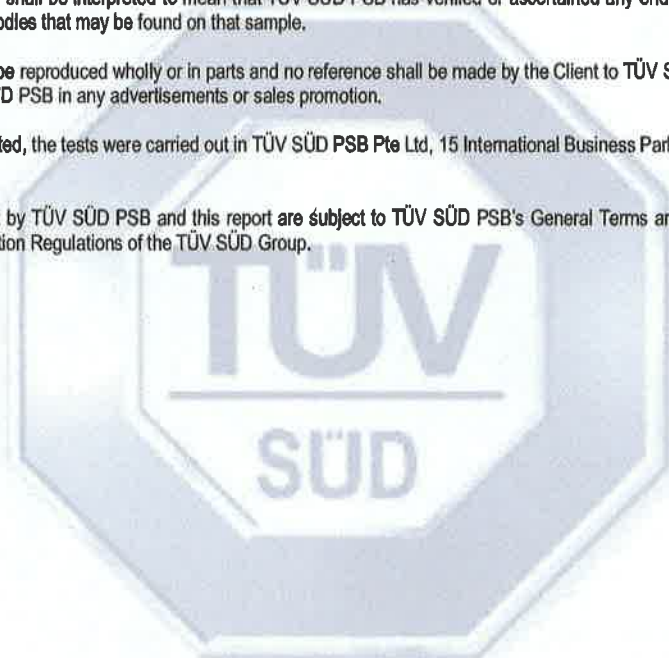


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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 4" ST 128 – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

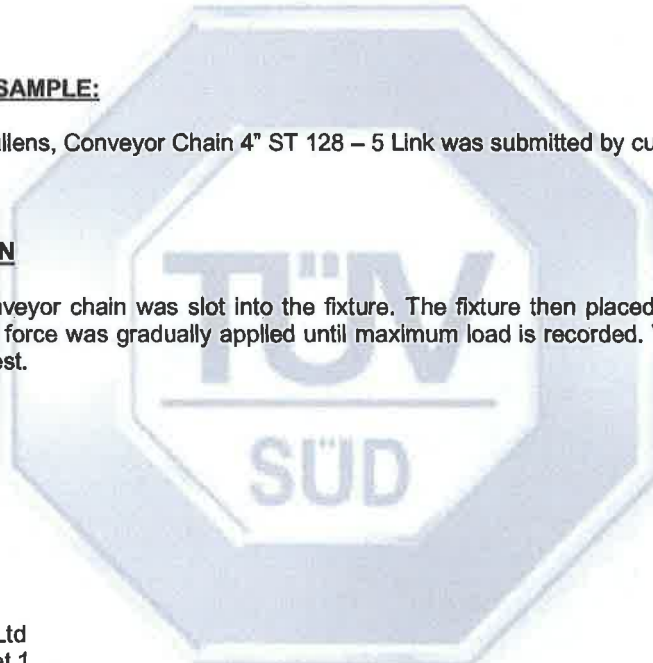
Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspection was then observed after the test.

DATE OF TEST:

27 September 2023

TEST LOCATION:

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60 Tuas South Street 1
Singapore 639925



TÜV SÜD PSB

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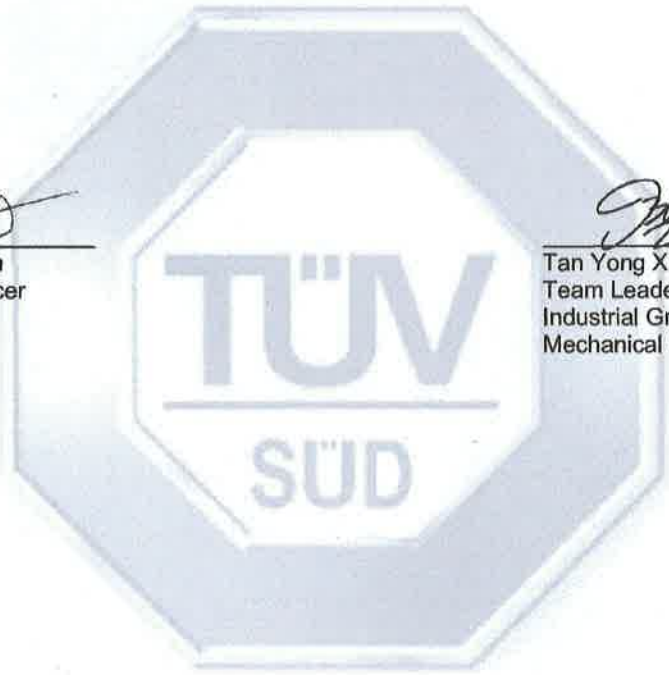
PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 4" ST 128 – 5 Link
Maximum Load (lbf)	34703
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer


Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre



APPENDIX:



Photo 1: Sample received

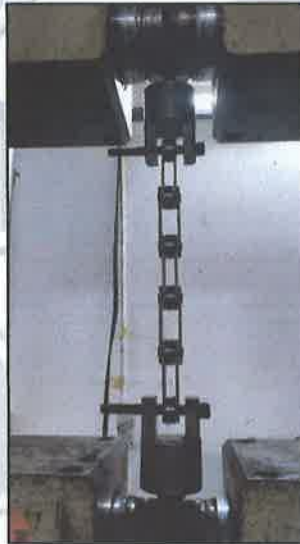
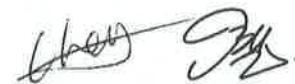


Photo 2: Test setup



Photo 3: Sample after test



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dated 04 OCT 2023

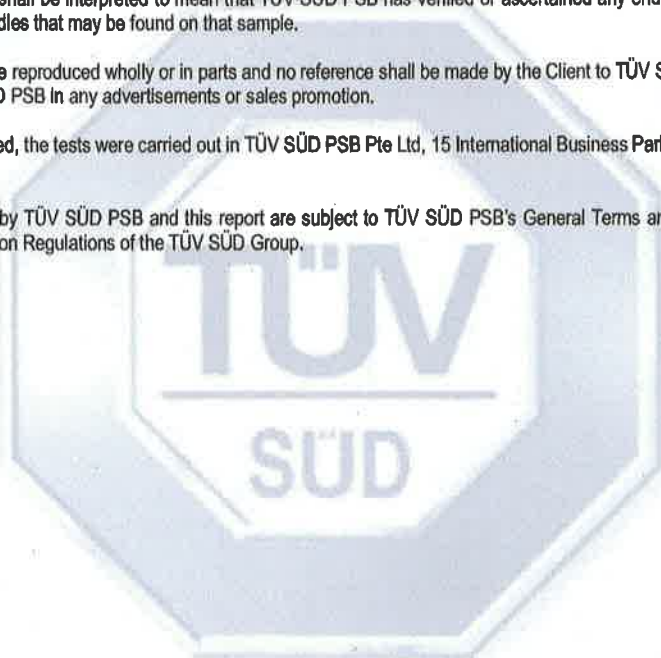


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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 6" HC 628 Hollow Pin – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspection was then observed after the test.

DATE OF TEST:

20 September 2023

TEST LOCATION:

TÜV SÜD PSB Pte Ltd
60 Tuas South Street 1
Singapore 639925



TÜV SÜD PSB

Laboratory:
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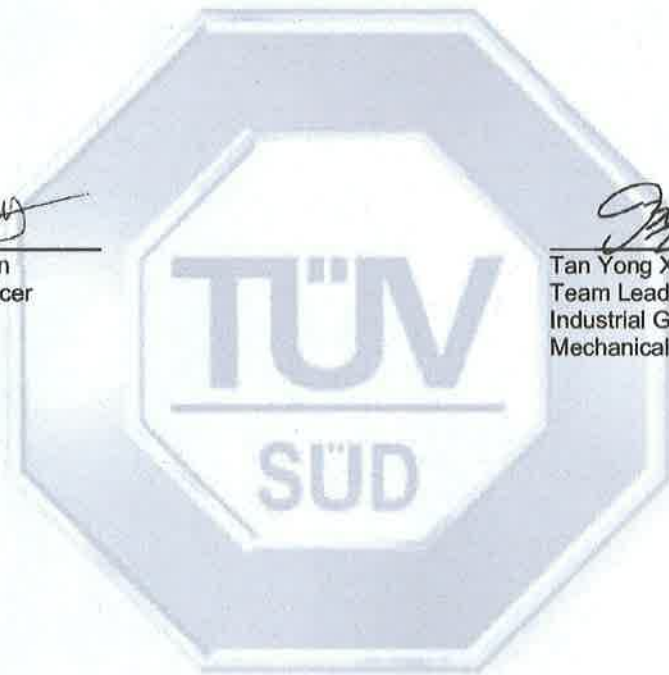


PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 6" HC 628 Hollow Pin – 5 Link
Maximum Load (lbf)	66655
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer




Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre

APPENDIX:



Photo 1: Sample received



Photo 2: Test setup



Photo 3: Sample after test



**Test Report No. 7191319963-MEC23/01-TYX
dated 04 OCT 2023**

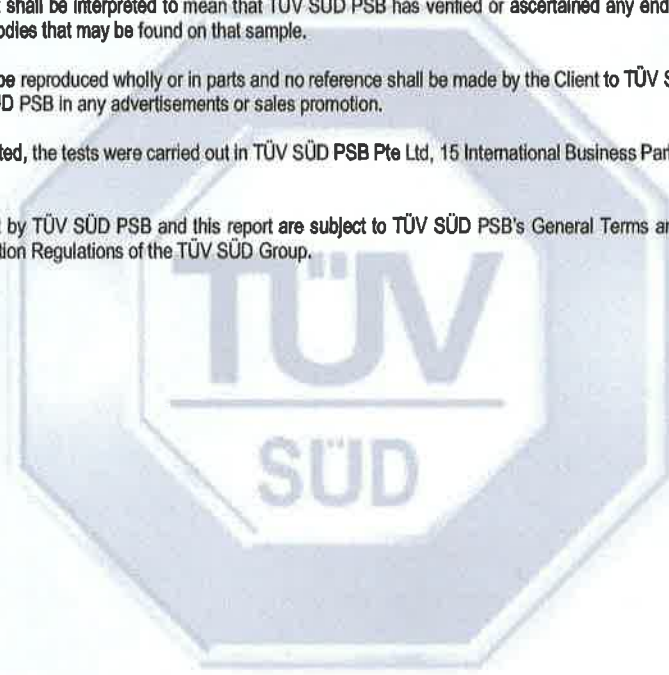


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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 6" ST 628 EL 50 – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

Both end of the conveyor chain was slot into the fixture. The fixture then placed on the Universal Testing Machine (UTM) and force was gradually applied until maximum load is recorded. Visual inspecton was then observed after the test.

DATE OF TEST:

20 September 2023

TEST LOCATION:

TÜV SÜD PSB Pte Ltd
60 Tuas South Street 1
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TÜV SÜD PSB

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dated 04 OCT 2023




PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 6" ST 628 EL 50 – 5 Link
Maximum Load (lbf)	65099
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer


Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre



APPENDIX:



Photo 1: Sample received



Photo 2: Test setup



Photo 3: Sample after test



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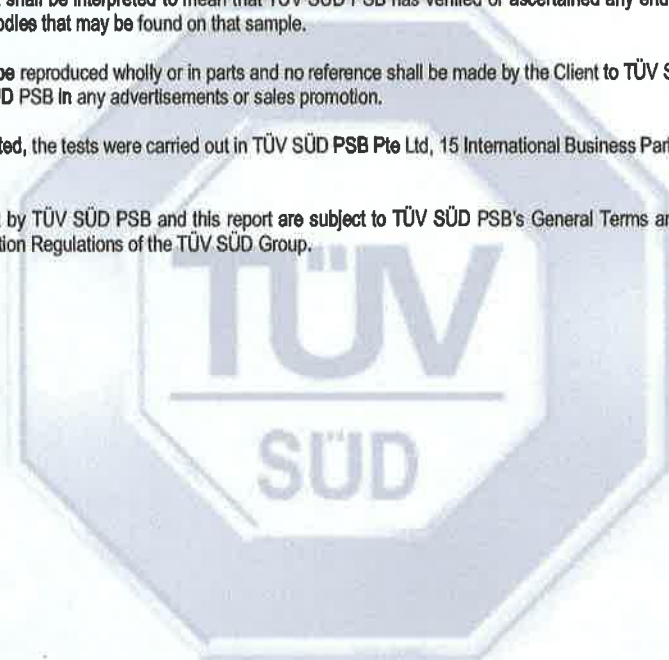


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SUBJECT:

Breaking load test

TESTED FOR:

PT Sinar Bintang Jaya Makmur
Pantal Indah Kapuk, Komplek Toho Blok A No.21
Jakarta Utara

Attn: Anto

DESCRIPTION OF SAMPLE:

1 piece of Brand: Cullens, Conveyor Chain 6" ST 628 EL 70 – 5 Link was submitted by customer on 19 September 2023.

TEST DESCRIPTION

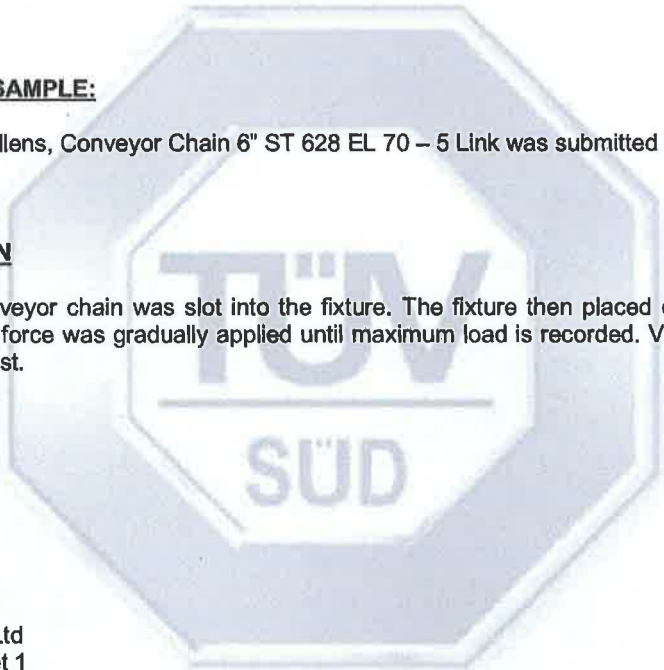
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DATE OF TEST:

20 September 2023

TEST LOCATION:

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60 Tuas South Street 1
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TÜV SÜD PSB

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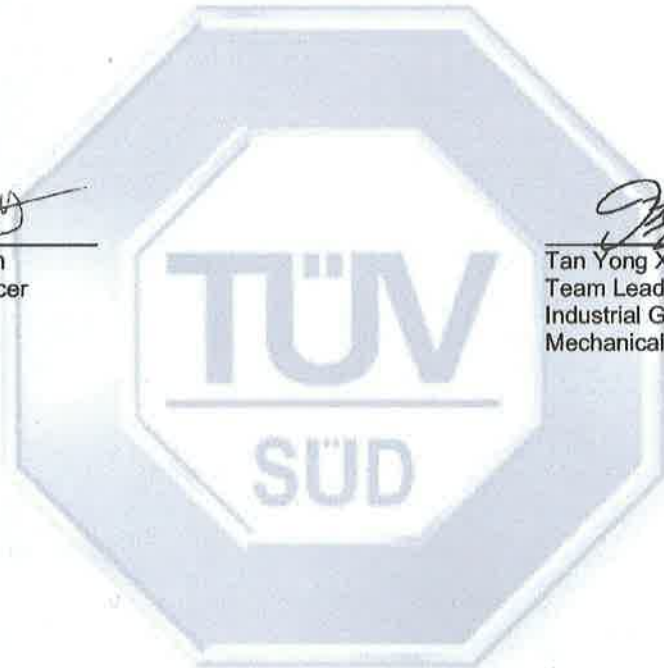
PSB Singapore

TEST RESULTS:

Sample Reference	Conveyor Chain 6" ST 628 EL 70 – 5 Link
Maximum Load (lbf)	75311
Observation	Inner bracket broke (Refer to photo 3)


Chen Chuan
Testing Officer


Tan Yong Xiang
Team Leader
Industrial Group
Mechanical Centre



APPENDIX:



Photo 1: Sample received

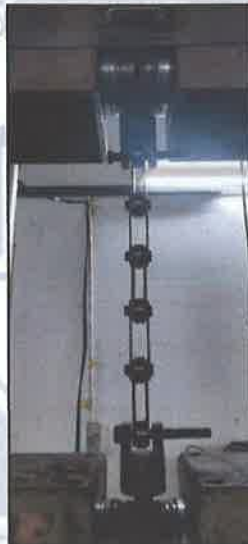


Photo 2: Test setup



Photo 3: Sample after test



Test Report No. 7191319963-MEC23/03-TYX
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Effective 26 January 2021

