

Test Report No. 7191147996-MEC16/03-SL
dated 29 NOV 2016



PSB Singapore

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SUBJECT:

Load test for Rotule & Spider

TESTED FOR:

Ocius Hardware
Jakarta, Indonesia

SAMPLE DESCRIPTION:

The following samples were submitted for testing

2 pieces of stainless steel spider fitting brand "OCIUS"
2 pieces of rotule

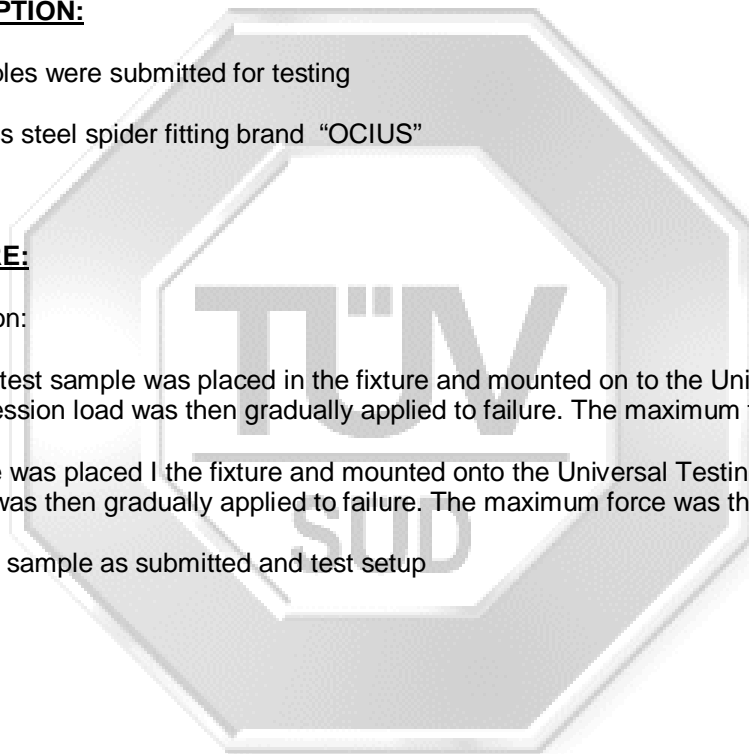
TEST PROCEDURE:

Client's Specification:

Spider Fitting: The test sample was placed in the fixture and mounted on to the Universal Testing Machine. A tensile or compression load was then gradually applied to failure. The maximum force was the recorded.

Rotule: test sample was placed in the fixture and mounted onto the Universal Testing Machine. A tensile or compression load was then gradually applied to failure. The maximum force was the recorded.

Appendix show the sample as submitted and test setup



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TEST RESULTS:

1. Rotule – Tensile & Shear

Sample reference	Tensile	Shear
Maximum force (kN)	48.9 (4987.8 kgf)	51.9 (5293.8 kgf)
Mode of failure	Stud deformed	Thread damaged

2. Load Test on Spider fitting (Radial & Axial)

Sample reference	Radial	Axial
Maximum force (kN)	6.3 (642.6 kgf)	6.4 (652.8 kgf)
Mode of failure	Spider fixing deform	



Sean Loh
Associate Engineer



Oh Heng Hwa
Executive Engineer
Industrial Products
Mechanical Centre

APPENDIX:



Photo. 1 : Rotule



Photo. 2 : Spider fitting

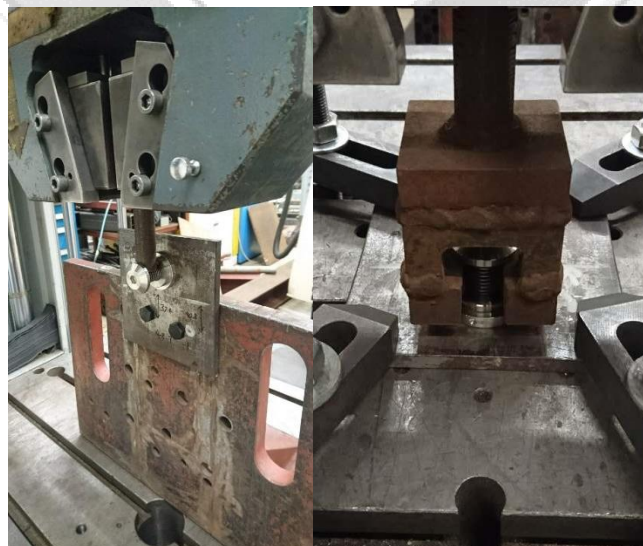
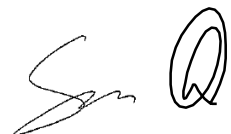


Photo. 3 : Test Setup -Rotule



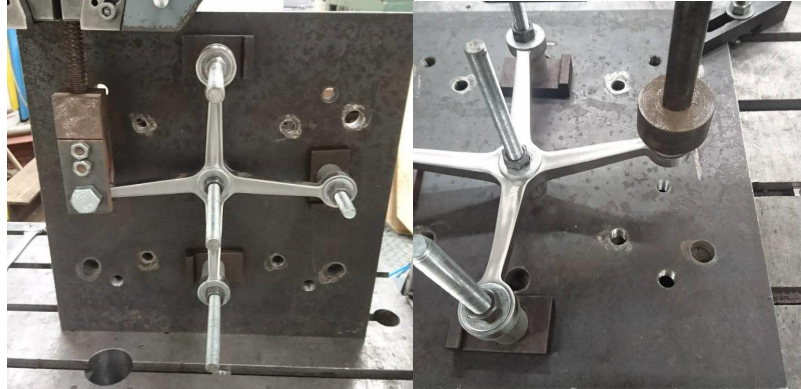


Photo. 4: Test setup-Spider fitting

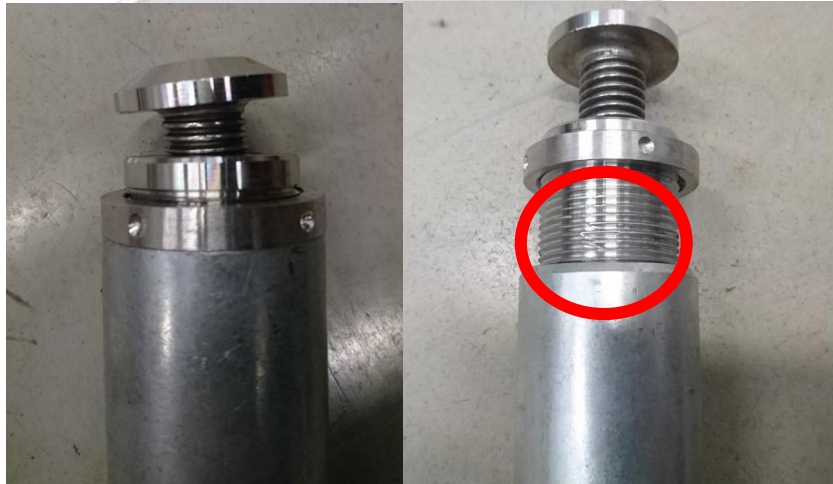
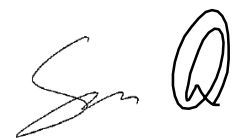


Photo. 5: Mode of failure - Rotule



Photo. 6: Mode of failure - Spider fitting



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July 2011

