



MECHANICAL TESTING REPORT

Report No: 44231-ME-01

Date of Issue: 24-04-2017

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Client: Acusafe

Attention: Danny Klein

Address: PO Box 621

Beenleigh, Qld 4207

Order Number: COD

Job Description: Load Test of Tube Samples

Test Piece Dimension: 40NB x 3mm W.T.

Identification: 1: Slide Bolt Fitting: Kag Tube - Carbon Steel - Not Further Specified

2: Kag Tube - Carbon Steel - Not Further Specified

3: Kag Tube - Carbon Steel - Not Further Specified

4: Original Tube - Carbon Steel - Not Further Specified

Test Specification: Client Requirements

Date of 21-04-2017

Examination:

Luke Davies

Laboratory Technician Mechanical Testing

Note:

- 1. All work is subject to our standard terms and conditions, available on our website http://www.alsglobal.com/en/Our-Services/Industrial/Asset-Care/Downloads
- 2. Test plates and specimens will be disposed of 30 days from issue date of this report unless other arrangements have been made.
- 3. This report is based on information supplied by the client and cannot be substantiated.

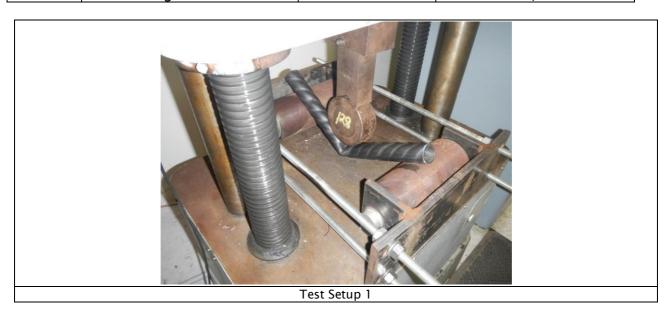


TEST PROCEDURE for Test Setup 1

Each Tube was placed in the 3-point bending jig that was placed on the bottom platen of the Shimadzu 300kN Universal Testing Machine. The Rollers of the Bending Jig were placed 415mm apart at the centres. A load was gradually applied with a 128mm former at equal distance between the rollers. The maximum load achieved was recorded.

Test Setup 1

Test ID	Identification	Maximum Load	Increase over Original Tube
1	Slide Bolt Fitting - Kag Tube	37.35kN	73%
2	Kag Tube	29.11kN	35%
3	Kag Tube	26.44kN	22%
4	Original Tube	21.59kN	N/A



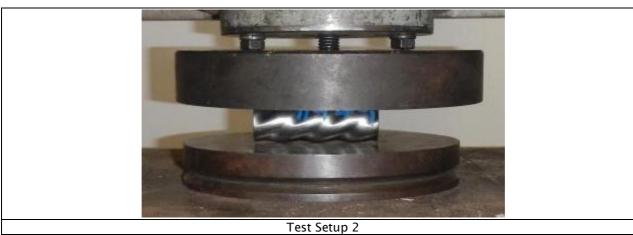


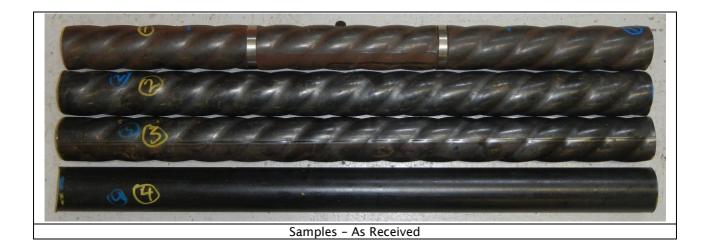
TEST PROCEDURE for Test Setup 2

Each Tube was cut to 100mm in length and placed between the hardened plates on the bottom and top platens of the Shimadzu 300kN Universal Testing Machine. A load was gradually applied. The load at which the first sign of deformation occurred was recorded.

Test Setup 1

Test ID	Identification	Load at first sign of deformation	Increase over Original Tube
3	Kag Tube	22.0kN	29%
4	Original Tube	17.0kN	N/A





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