

TEST LABORATORY REPORT

ISSUED BY: The Test Laboratory of Phoenix Materials Testing Ltd

DATE OF ISSUE: 10/04/2019

REPORT NUMBER: 5693



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Page 1 of 7 Pages

Approved Signatory

D. Skeldon
(Lab Manager)



ISSUED TO

Wolfclip UK Ltd.Fauld Industrial Estate
Burton-on-Trent



TEST LOCATION

Phoenix Materials Testing Ltd
Unit E2, Wallows Industrial Estate
Fens Pool Avenue
Brierley Hill
DY5 1QA

TESTED BY

T. Bishop

PHOENIX JOB REFERENCE

5693

DATE OF TESTING

05/04/2019

PROCEDURE FOLLOWED

Phoenix TWP 5693

TEST SAMPLE DESCRIPTION

3x "Large O-Rings"

TEST SAMPLE REFERENCE

Customer ID = N/A
Phoenix ID = 820, 821, 822
823, 824, 825

P.O NUMBER

WC221

Results on this certificate apply to the items detailed above.

Author: T. Bishop

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TL022 issue 1

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Report Number 5693

Page 2 of 7
Pages

1 Test Data

1.1 Equipment Used

MACHINE: Lisbon

FIXTURES: Bespoke Wolfclip fixtures

ACCESSORIES: n/a

1.2 Calibration Details

	Calibration Certificate	Valid Until
Force	193880L	04/02/2020
Stroke	193881S	04/02/2020
Strain	N/A	N/A

1.3 Temperature

The ambient temperature at the time of the verification was 21.9 degrees Celsius.

1.4 Test Procedure

See Appendix 1, Technical Work Procedure created by Phoenix Materials Testing prior to commencement of work. This document is completed on completion of work to include any changes to the planned procedure.

1.5 Disclaimer

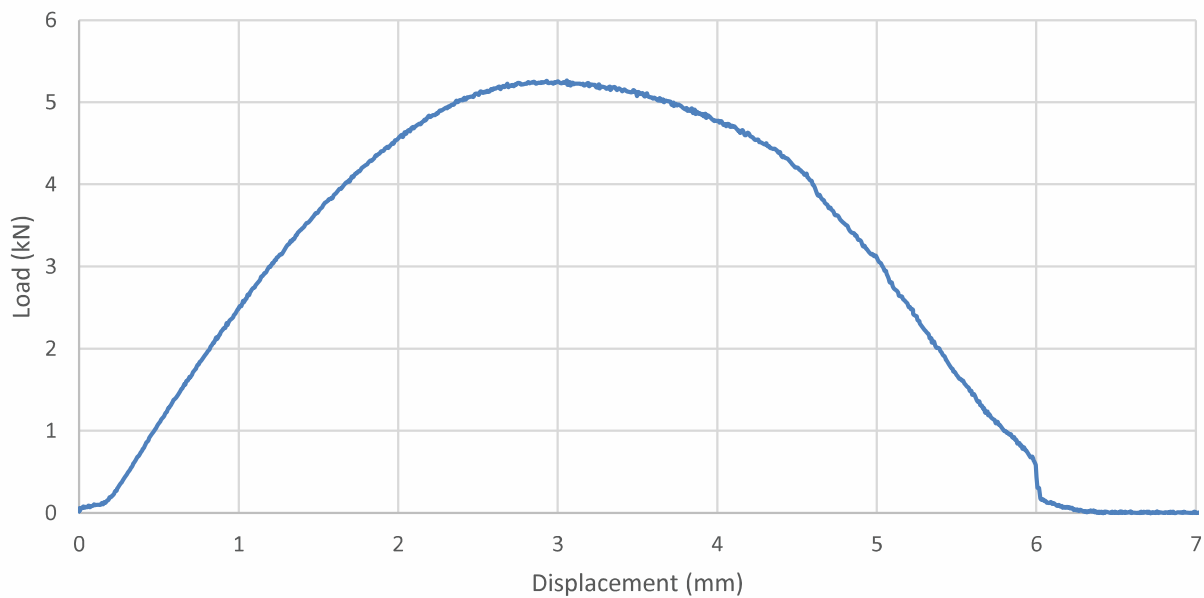
Machine Calibration range 125kN – 2kN.

2 Results

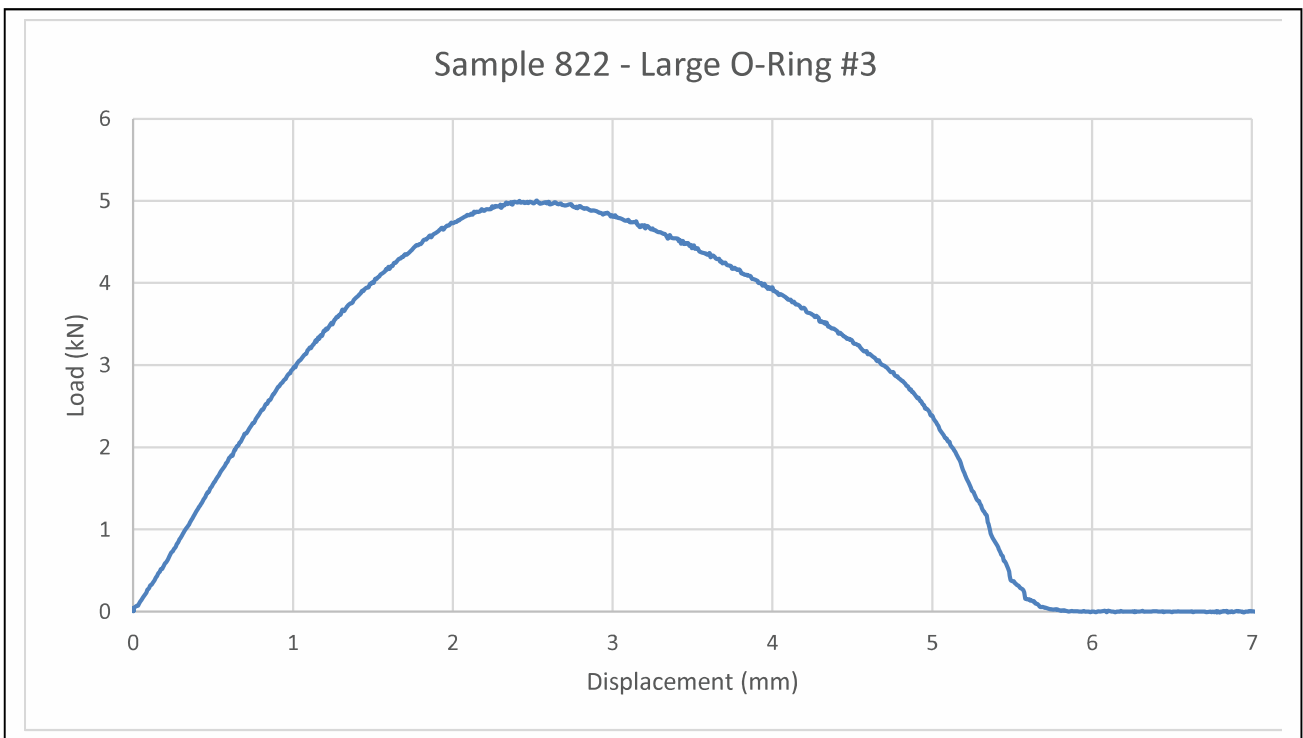
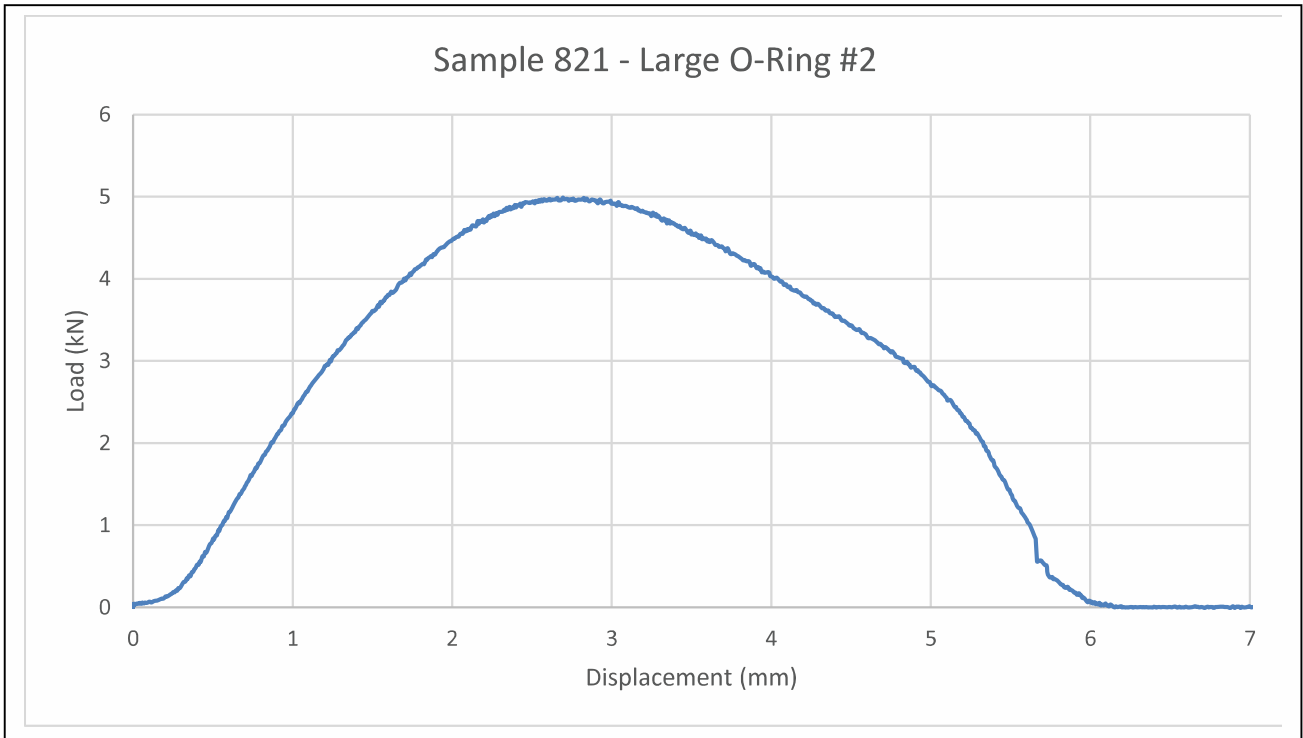
3x "Large O-Ring" and 3x "Large Lead" samples were tested in accordance with and as described in Contract Review ref. 5693.

Sample ID	Description	Maximum Load	Failure location
820	Large O-Ring #1	5.27 kN	Aluminium Housing
821	Large O-Ring #2	4.99 kN	Aluminium Housing
822	Large O-Ring #3	5.01 kN	Aluminium Housing
823	Large Lead #1	1.47 kN	Plastic Buckle
824	Large Lead #2	1.48 kN	Plastic Buckle
825	Large Lead #3	1.57 kN	Plastic Buckle

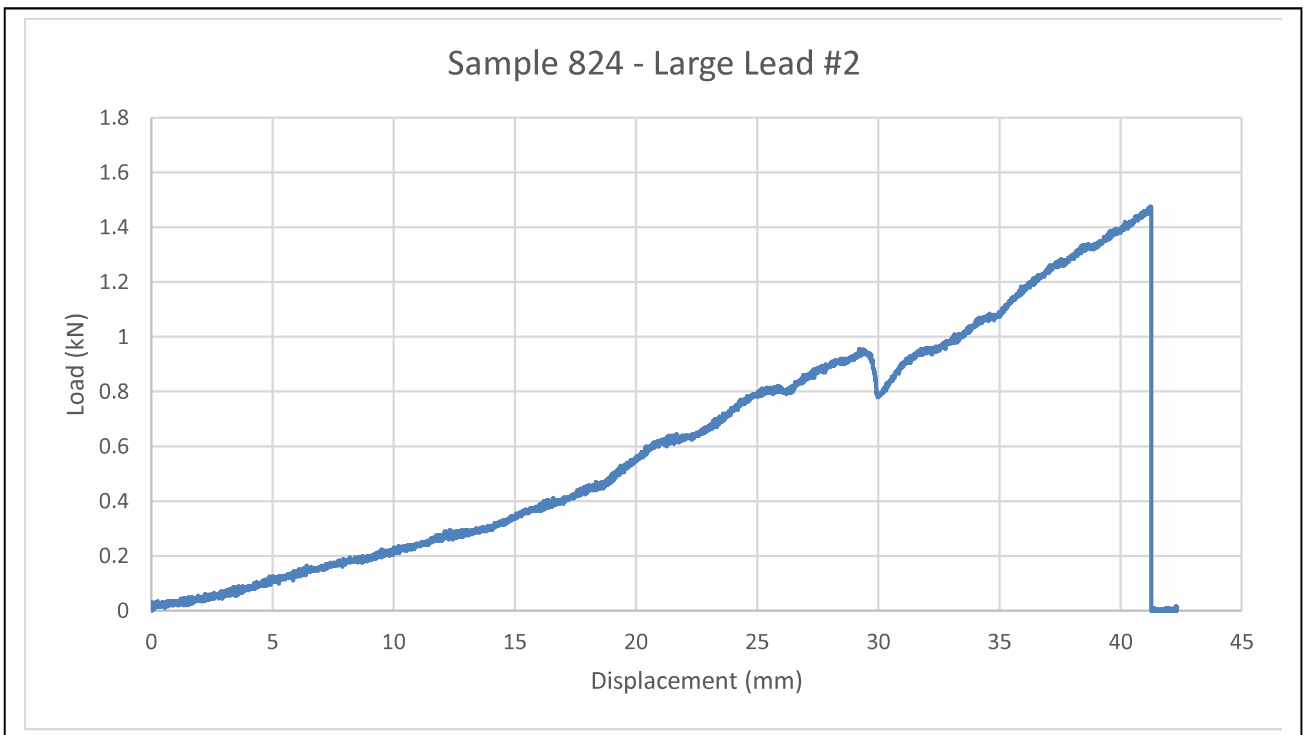
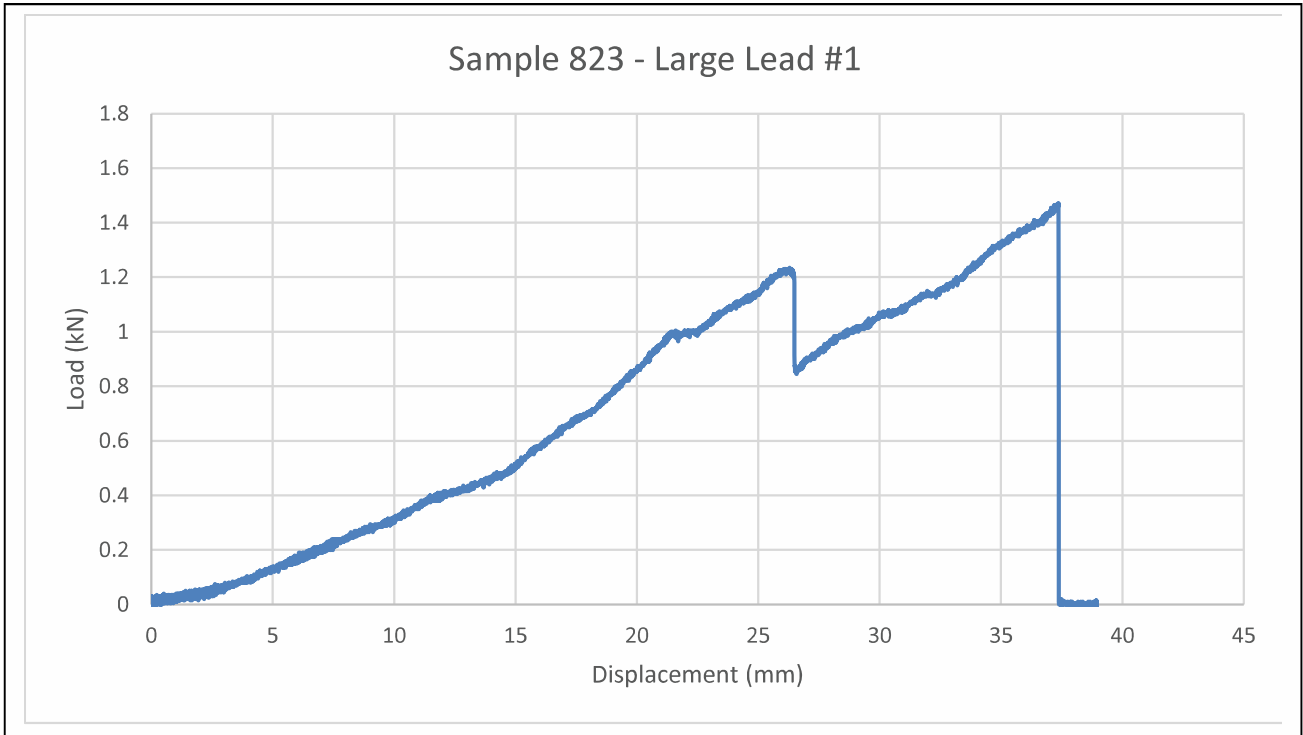
Sample 820 - Large O-Ring #1



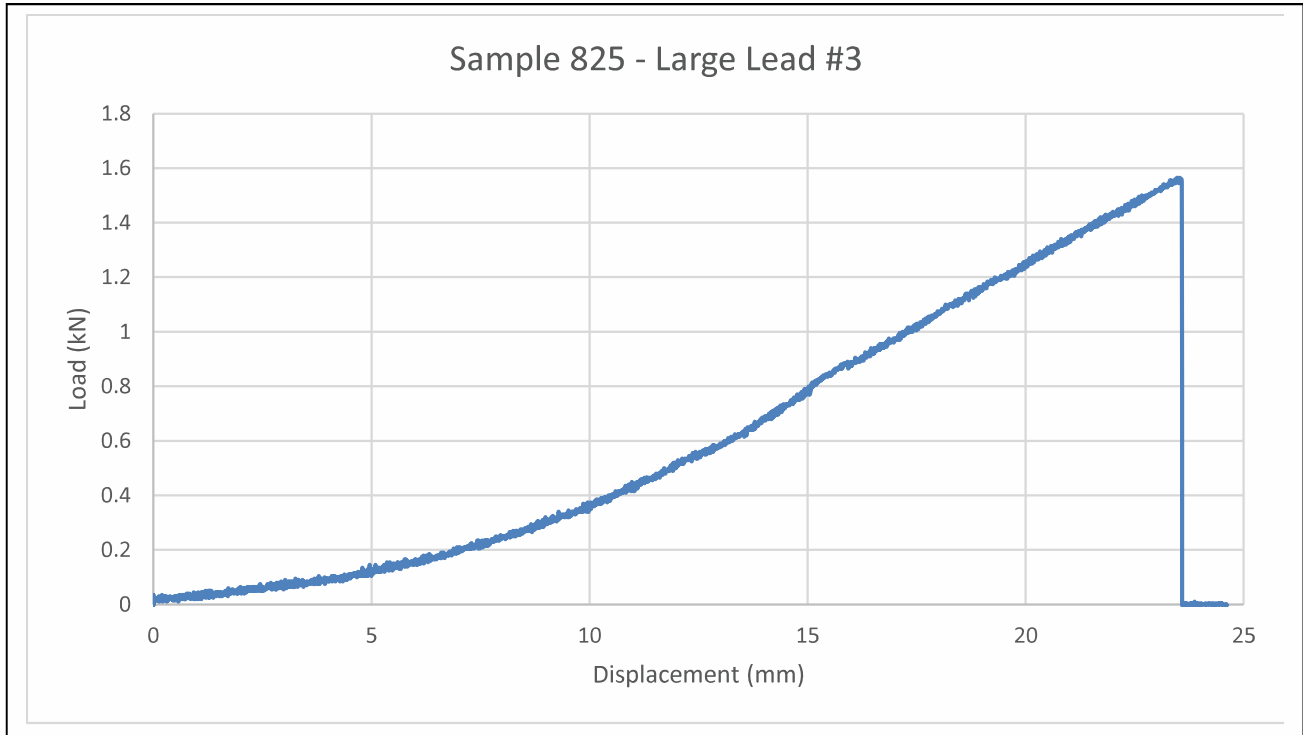
3 Results



4 Results



5 Results



6 Photographs



Photo Ref. 5693 Large O-Ring Test Set-Up Photo Ref. 5693 Large Lead Test Set-Up

6 Photographs



Photo Ref. 5693 Samples Post-Test

7 Additional Comments

NONE

Appendix 1