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Test Report

ANSI Z359.15-2014
Single Anchor Lifelines and Fall Arresters
(Qualification Testing)

Report no: 2.20.12.38A

Client: Frontline Fall Protection Inc.
2023 NW 84th Ave
Miami
Florida 33122
U.S.A

Manufacturer: Frontline Fall Protection Inc.

Client orders: T/0564 (19 January 2019)
T/0807 (8 September 2020)
T/0977 (21 December 2021)

Models: RGSS58ES (Fall arrester)
VLP25R3L (Single anchor lifeline, 25 ft)
VLP30R3L (Single anchor lifeline, 30 ft)
VLP50R3L (Single anchor lifeline, 50 ft)
VLP75R3L (Single anchor lifeline, 75 ft)
VLP100R3L (Single anchor lifeline, 100 ft)
VLP125R3L (Single anchor lifeline, 125 ft)
VLP150R3L (Single anchor lifeline, 150 ft)
VLP200R3L (Single anchor lifeline, 200 ft)

Dates of tests: 10 April 2019 to 27 September 2019, and 9 December 2020

Signed: 

Issued: 21 December 2021

Steven Sum, Laboratory Manager

This report is a revision to report number 2.20.12.38 and replaces the original report, which is hereby withdrawn.

Conditions

This report may be reproduced and distributed to your clients, provided that it is reproduced and distributed in full.

Specimens will be disposed of four weeks from the date of this report, unless otherwise instructed.

Opinions, comments and interpretations expressed in this report are shown in italics.

Copies of INSPEC interpretations referenced in this report are available upon request.

Tests marked ☒ are not included in our ANAB Scope of Accreditation.

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Summary of assessment*

Clause	Requirement		Assessment (see key)
3.1	**Single Anchor Lifeline Components**		
3.1.1	Integral connectors		NAs
3.1.2	Rope characteristics		NAs
3.1.3	Elastic elongation		Pass
3.1.4	Rope diameter		Pass
3.1.5	Rope fabrication		NAs
3.1.6	Materials		NAs
3.1.7	Lifelines supplied with factory terminations	Breaking strength	Pass
3.1.8.1		Spliced	NAp
3.1.8.2		Stitched	Ltd
3.1.8.3		Swaged	NAp
3.1.9	Breaking strength - lifeline supplied without factory termination		
3.1.10	Dual purposes / rope access or descent control applications		NAp
3.1.11	Residual static strength		Pass
3.1.12.1	Wire rope lifeline	Breaking strength	
3.1.12.2		Construction	
3.1.12.3		Factory terminations	
3.2	**Fall arrester Components**		
3.2.1	Integral connectors		NAs
3.2.2	Non-integral energy absorber and energy absorbing lanyards		NAp
3.2.3	Integral lanyards		Ltd
3.2.4	Locking (fall stopping) function		Pass
3.2.5	Dynamic performance (manual override)		Pass
3.2.6	Open with two consecutive and deliberate actions		Pass
3.2.7	Knot or hitch		Pass
3.2.8	Integral rings and openings		NAp
3.2.9	Static strength		Pass
3.2.10	Dynamic performance - ambient		Pass
	Dynamic performance - hot		Pass
	Dynamic performance - cold		Pass
	Dynamic performance - wet		Pass
3.2.11	Function test		Pass

3.2.12	Residual static strength	Pass
3.2.13	Corrosion resistance	Pass
5.1 / 5.2	Marking requirements	Ltd
5.3 / 5.4	Instruction requirements	Ltd

Key

	Shading shows the clauses requested. Any other clauses were not requested.
Pass	Requirement satisfied.
Ltd	Testing requested was insufficient completely to verify compliance with the clause. Refer to the "Result details" section for more information.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
NAp	Requirement not applicable.
NT	Requested but not tested due to early termination following failure.

* Assessment relates only to those specimens which were tested and are the subject of this report.

Submission details

Product	**Quantity**	**Date received**	**INSPEC specimen no.** (2G043+)
Fall arrester, model RGSS58ES	21 sets	7 March 2019	01-21
Single Anchor Lifeline (7m)			
Fall arrester, model RGSS58ES with Single Anchor Lifeline, model VLP50R3L	01 set		22

Procedures

The specimens detailed within the submissions above were used for the tests covered by this report.

Testing was performed in accordance with ANSI Z359.15-2014 unless otherwise specified below. Reference should be made to the standard when reading this report.

Unless stated otherwise, specimens were tested in the condition as received by INSPEC.

Testing was performed at INSPEC's laboratory in Kunshan, China.

The client made the following declarations:

Single anchor lifelines are available in different lengths. They have the same design and are constructed using the same material. Only the lengths are different.

For the purpose of testing, 7m length Single Anchor Lifelines were provided.

Result details

3 Design requirements

3.1 Single Anchor Lifeline Components

3.1.1 Connectors

Specimen 2G04322 was assessed.

Testing of integral connectors was not requested — NAs

3.1.2 Rope characteristics

This clause was not assessed. Manufacturer to certify. — NAs

3.1.3 Elastic elongation

Specimens 2G04319 to 2G04321 were assessed.

The elastic elongation of the single anchor lifeline was 6.2% at a load of 1800 pounds. This was not greater than the 10% permitted. — Pass

3.1.4 Rope diameter

Specimens 2G04319 to 2G04320 were assessed.

The minimum nominal diameter measured was 0.63 inches. This value is more than 0.433 inch permitted. — Pass

3.1.5 Rope fabrication

This clause was not assessed. Manufacturer to certify. — NAs

3.1.6 Materials

This clause was not assessed. Manufacturer to certify. — NAs

3.1.7 Lifeline supplied with factory termination – Breaking strength

Specimens 2G04316 to 2G04318 were assessed.

All specimens withstood the tensile tests of 5,000 pounds applied for 1 minute without breaking. — Pass

3.1.8 Single anchor lifelines supplied with a factory termination

3.1.8.1 Spliced terminations

There were no splice eye terminations. — NAp

3.1.8.2 Stitched terminations

Specimen 2G04322 was assessed.

a) Lock stitches sewn on all stitched eye termination rope was not assessed. Manufacturer to certify. NAs

b) The material and characteristics of thread used was not assessed. Manufacturer to certify. NAs

c) Colour of threads used for sewing the rope and the colour of the rope were not assessed. NAs

d) A properly sized thimble was incorporated as part of the formed eye termination. Pass

e) The ends of the rope were hot-cut to prevent from unravelling. Pass

3.1.8.3 Swaged terminations

There were no swaged eye terminations. NAp

3.1.10 Dual purposes – rope access / descent control applications

Not claimed. NAp

3.1.11 Residual static strength

Specimens 2G04301 to 2G04303 were assessed.

Following the dynamic performance tests, all specimens withstood the tensile test of 1,800 pounds applied for 1 minute without breaking. Pass

3.2 Fall Arrester Components

3.2.1 Connectors

Specimen 2G04322 was assessed.

The fall arrester incorporated a snaphook.

The testing of the snaphook was not requested. NAs

3.2.2 Non-integral energy absorber and energy absorbing lanyards

There was no non-integral energy absorber or energy absorbing lanyards. NAp

3.2.3 Lanyards integral to fall arresters

3.2.3.1 Characteristics

This clause was not assessed. Manufacturer to certify these characteristics NAs

3.2.3.2 Lanyards termination

Specimen 2G04322 was assessed.

The specimen was terminated by stitching.

The terminations satisfied 3.1.8.2, as appropriate (see below). Ltd

3.1.8.2 Stitched terminations

Specimen 2G04322 was assessed.

a) Lock stitches sewn on all stitched eye termination straps were not assessed. Manufacturer to certify. NAs

b) The material and characteristics of thread used was not assessed. Manufacturer to certify. NAs

c) Colour of threads used for sewing the lanyard and the colour of the lanyard were not assessed. NAs

d) This clause is not applicable to the type of lanyard tested. NAp

e) The ends of the lanyard were hot-cut so as to prevent unravelling. Pass

3.2.3.3 Static strength

Specimens 2G04316 to 2G04318 were assessed.

The specimens withstood the tensile test of 3,600 pounds applied for 1 minute without breaking. Pass

3.2.3.4 Connectors

Specimen 2G04322 was assessed.

The specimen included a snaphook. Testing of the snaphook was not requested NAs

3.2.3.5 Deployment indicator or warning flag

Subsequent to the testing of specimens 2G04301 against 3.2.10, it became obvious that the energy absorber had been activated. Pass

3.2.4 Locking (fall stopping) function

Specimen 2G04313 was assessed.

During the dynamic performance test in 3.2.5, the locking features of the fall arrester activated without any intervention. Pass

3.2.5 Dynamic performance (Manual override)

Specimens 2G04313 to 2G04315 were assessed.

During the dynamic performance manual override tests,

The fall arrester arrested the fall, and holds the load for a minimum of 1-minute without moving further down the lifeline. Pass

The total fall distances were:

Specimen 2G04313 – 10.0 ft Pass
Specimen 2G04314 – 10.7 ft Pass
Specimen 2G04315 – 10.6 ft Pass

These values were less than the maximum 11 feet permitted.

The average arrest forces were:

Specimen 2G04313 – 731 pounds Pass
Specimen 2G04314 – 760 pounds Pass
Specimen 2G04315 – 762 pounds Pass

These values were less than the maximum 900 pounds permitted.

The maximum arrest forces were:

Specimen 2G04313 – 907 pounds Pass
Specimen 2G04314 – 951 pounds Pass
Specimen 2G04315 – 997 pounds Pass

These values were less than the maximum 1,800 pounds permitted.

See Annex 1 for the plots of force versus time.

Specimen 2G04322 was assessed.

3.2.6 Two consecutive and deliberate actions were required to open the fall arrester. Pass

3.2.7 The fall arrester did not include a knot or hitch. Pass

3.2.8 No mating connectors were provided by the manufacturer. NAp

3.2.9 Static strength

Specimens 2G04316 to 2G04318 were assessed.

The specimens withstood the tensile test of 3,600 pounds applied for 1 minute without release the load. Pass

3.2.10 Dynamic performance - Ambient

Specimens 2G04301 to 2G04303 were assessed.

During the dynamic performance tests,

The fall arrester locked on the lifeline and remains locked, holding the test weight for a minimum of 1-minute until released. Pass

The total fall distances were:

Specimen 2G04301 – 11.0 ft Pass
Specimen 2G04302 – 10.4 ft Pass
Specimen 2G04303 – 10.7 ft Pass

These values were less than the maximum 11 feet permitted.

The average arrest forces were:

Specimen 2G04301 – 784 pounds Pass
Specimen 2G04302 – 787 pounds Pass
Specimen 2G04303 – 792 pounds Pass

These values were less than the maximum 900 pounds permitted.

The maximum arrest forces were:

Specimen 2G04301 – 1006 pounds Pass
Specimen 2G04302 – 1032 pounds Pass
Specimen 2G04303 – 1030 pounds Pass

These values were less than the maximum 1,800 pounds permitted.

See Annex 1 for the plots of force versus time.

3.2.10 Dynamic performance – Hot conditioning test

Specimens 2G04304 to 2G04306 were assessed.

During the dynamic performance tests,

The fall arrester locked on the lifeline and remains locked, holding the test weight for a minimum of 1-minute until released. Pass

The total fall distances were:

Specimen 2G04304 – 10.5 ft Pass
Specimen 2G04305 – 10.7 ft Pass
Specimen 2G04306 – 10.6 ft Pass

These values were less than the maximum 11 feet permitted.

The average arrest forces were:

Specimen 2G04304 – 756 pounds Pass
Specimen 2G04305 – 759 pounds Pass
Specimen 2G04306 – 783 pounds Pass

These values were less than the maximum 900 pounds permitted.

The maximum arrest forces were:

Specimen 2G04304 – 1076 pounds Pass
Specimen 2G04305 – 1045 pounds Pass
Specimen 2G04306 – 1094 pounds Pass

These values were less than the maximum 1,800 pounds permitted.

See Annex 1 for the plots of force versus time.

3.2.10 Dynamic performance – Cold conditioning test

Specimens 2G04307 to 2G04309 were assessed.

During the dynamic performance tests,

The fall arrester locked on the lifeline and remains locked, holding the test weight for a minimum of 1-minute until released. Pass

The total fall distances were:

Specimen 2G04307 – 9.7 ft Pass
Specimen 2G04308 – 10.3 ft Pass
Specimen 2G04309 – 9.9 ft Pass

These values were less than the maximum 11 feet permitted.

The average arrest forces were:

Specimen 2G04307 – 815 pounds Pass
Specimen 2G04308 – 793 pounds Pass
Specimen 2G04309 – 803 pounds Pass

These values were less than the maximum 900 pounds permitted.

The maximum arrest forces were:

Specimen 2G04307 – 953 pounds Pass
Specimen 2G04308 – 971 pounds Pass
Specimen 2G04309 – 947 pounds Pass

These values were less than the maximum 1,800 pounds permitted.

See Annex 1 for the plots of force versus time.

3.2.10 Dynamic performance – Wet conditioning test

Specimens 2G04310 to 2G04312 were assessed.

During the dynamic performance tests,

The fall arrester locked on the lifeline and remains locked, holding the test weight for a minimum of 1-minute until released. Pass

The total fall distances were:

Specimen 2G04310 – 10.1 ft Pass
Specimen 2G04311 – 10.2 ft Pass
Specimen 2G04312 – 9.9 ft Pass

These values were less than the maximum 11 feet permitted.

The average arrest forces were:

Specimen 2G04310 – 835 pounds Pass
Specimen 2G04311 – 881 pounds Pass
Specimen 2G04312 – 865 pounds Pass

These values were less than the maximum 900 pounds permitted.

The maximum arrest forces were:

Specimen 2G04310 – 1250 pounds Pass
Specimen 2G04311 – 1256 pounds Pass
Specimen 2G04312 – 1245 pounds Pass

These values were less than the maximum 1,800 pounds permitted.

See Annex 1 for the plots of force versus time.

3.2.11 Function test

Specimens 2G04319 to 2G04321 were assessed.

The specimens travelled up and down the lifeline without assistance. Pass

3.2.12 Residual static strength

Specimens 2G04301 to 2G04303 were assessed.

Following the dynamic performance tests, the fall arrester did not move down the lifeline when a tensile force of 660 pounds was applied for 1 minute. Pass

3.2.13 Corrosion resistance

Specimens 2G04319 to 2G04321 were assessed.

Following the salt spray test, there was no evidence of corrosion of the base metal and the fall arrester operated as intended. Pass

5 Markings and Instructions

5.1 General Marking Requirements

5.1.1 Markings shall be in English. Pass

5.1.2 The legibility and attachment of required markings shall endure for the life of the fall arrester or single anchor lifeline being marked was not assessed. NAs

The marking labels were provided electronically and use for assessment.

When pressure sensitive labels are used, they shall comply with the applicable provision of reference UL 969-89, Marking and Labelling Systems. This requirement was not assessed. Manufacturer to certify. NAs

5.2 Specific Marking Requirements

5.2.1 Fall arresters shall be marked with the following:

- Part number or model designation; [RGSS58ES] Pass
- Year of manufacture; Pass
- Manufacturer's name or logo; [FRONTLINE] Pass
- Capacity rating; [130-310lbs] Pass
- Serial number; Pass
- Standard number "Z359.15"; Pass
- Warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer; Pass
- The direction of use of the fall arrester on its single anchor lifeline; Pass
- The proper size(s) and type(s) of single anchor lifeline with which the fall arrester is intended to be used; [5/8 inch] Pass
- Warning to use only manufacturer approved lanyards according to instructions. Pass

5.2.2 Single anchor lifelines shall be marked to identify:

- The fiber used in the material of construction; [Nylon] Pass
- The diameter of lifeline; [5/8 inch] Pass
- The length of the lifeline; Pass
- The model of fall arrester(s) acceptable for use with the lifeline; [RGSS58ES] Pass
- The need to avoid contact with sharp edges and abrasive surfaces; Pass
- Standard number "Z359.15"; Pass
- Serial number; Pass
- Part number or model designation; Pass
- Year of manufacture; Pass
- Manufacturer's name or logo. [FRONTLINE] Pass

5.2.3 Integral lanyards shall be marked to identify:

· The material used in lanyard construction;	NAp
· The length of the lanyard;	NAp
· The need to avoid contact with sharp edges and abrasive surfaces;	NAp
· The need to make only compatible connections;	NAp
· The average arrest force, maximum free fall distance, maximum deployment distance and capacity;	NAp
· Standard number “Z359.15”;	NAp
· Serial number;	NAp
· Part number or model designation;	NAp
· Year of manufacture;	NAp
· Manufacturer’s name or logo.	NAp

5.3 General Instruction Requirements

5.3.1	Instructions shall be provided to the user, printed in English and affixed to the equipment at the time of shipment from the manufacturer.	NAs
5.3.2	Instructions shall contain the following information:	
	· A statement that the manufacturer's instructions shall be provided to users;	Pass
	· Manufacturer's name, address and telephone number;	Pass
	· Manufacturer's part number or model designation for the equipment;	Pass
	· Intended use and purpose of the equipment;	Pass
	· Proper method of use and limitations on use of the equipment;	Pass
	· Illustrations showing locations of markings on the equipment;	Pass
	· Reproduction of printed information on all markings;	Pass
	· Inspection procedures required to assure the equipment is in serviceable condition and operating correctly;	Pass
	· Anchorage requirements;	Pass
	· Criteria for discarding and retiring equipment which fails inspection;	Pass
	· Procedures for cleaning, maintenance and storage;	Pass
	· A reference chart that indicates the clearance requirements of the system according to the fall	Pass
5.3.3	Instructions shall require that only the equipment manufacturer, or persons or entities authorized in writing by the manufacturer, shall make repairs to equipment.	Pass
5.3.4	Instructions shall require the user to remove equipment from field service if it has been subject ed to the forces of arresting a fall.	Pass
5.3.5	Instructions shall require the user to have a rescue plan and the means at hand to implement it when using the equipment.	Pass
5.3.6	Instructions shall provide warnings regarding:	
	· Altering the equipment;	Pass
	· Misusing the equipment;	Pass
	· Using combinations of fall arresters, lanyards, lifelines, which may affect or interfere with the safe function of each other;	Pass
	· Exposing the equipment to chemicals which may produce a harmful effect and to consult the manufacturer in cases of doubt;	Pass
	· Using the equipment around moving machinery and electrical hazards;	Pass
	· Using the equipment near sharp edges and abrasive surfaces, as well as the need for abrasion protection;	Pass
	· Other warnings deemed necessary by the manufacturer.	Pass

5.4 Specific Instruction Requirements

5.4.1 Fall Arresters. In addition to the requirements in 5.3, instructions for fall arresters shall include:

· Acceptable lanyards, by make and model, for use with the fall arrester;	Pass
· How to attach the lanyard to the fall arrester;	NAp
· The maximum allowable free fall distance;	Pass
· Proper method of connection to the full body harness (frontal and/or dorsal connection);	Pass
· Warnings that the fall arrester shall be attached to no more than one lifeline;	Pass
· Warnings that the fall arrester shall be attached to no more than one user;	Pass
· Warnings to avoid exposure to physical and chemical hazards which the fall arrester is not designed to withstand;	Pass
· Instructions to not manipulate or hold the fall arrester body or lever, but to move the fall arrester up/down by the lanyard;	Pass
· The maximum arrest distance and clearance requirement when dynamically tested in accordance with the requirements of this standard;	Pass
· The proper size, construction and type of single anchor lifelines with which the fall arrester is intended to be used;	Pass
· Warnings to emphasize that anchoring be above the user to prevent pendulum fall;	Pass
· Warnings to emphasize use is not suitable when the user is positioned on an unstable surface, fine grain material or particulate solids such as sand or coal;	Pass
· Information for determining total fall distance including lifeline elongation;	Pass
· Capacity range of 130 to 310 pounds;	Pass
· Standard number “Z359.15”.	Pass

5.4.2 Single Anchor Lifelines. In addition to the requirements in 5.3, instructions for single anchor lifelines shall include:

· The material used in the single anchor lifeline construction;	Pass
· Proper method of coupling the single anchor lifeline to anchorage connectors and anchorages with which it is intended to be used and to adjacent components of the system;	Pass
· The minimum static strength;	Pass
· Warnings that only one fall arrester be attached to the single anchor lifeline;	Pass
· Warnings that only one user can be attached to the single anchor lifeline;	Pass
· Warnings to avoid exposure to physical and chemical hazards which the single anchor lifeline is not designed to withstand;	Pass
· Warnings using the equipment near sharp edges and abrasive surfaces and the need for abrasion protection;	Pass
· Warnings to avoid swing fall hazards encountered when the anchorage is not directly overhead;	Pass
· The proper fall arrester, by make and model, with which the single anchor lifeline is intended to be used;	Pass
· The percentage of stretch of the lifeline when loaded to 900 pounds (4 kN);	Pass
· Capacity range of 130 to 310 pounds;	Pass
· Lifeline melting point;	Pass
· Standard number “Z359.15”;	Pass
· If permissible by the manufacturer, specific directions how to cut damaged sections from the lifelines and how to re-label non-terminated lifelines according to 5.2.2;	NAp
· Direction how to stabilize the lower end of the lifeline with a weight or alternative method directed by the manufacturer;	Pass
· Direction(s) regarding placement of a rope stop to prevent the fall arrester inadvertently traveling off the end of the lifeline.	Pass

Estimates of the uncertainty of measurement

Clause	Test		Uncertainty
3.1.1	Connectors		See report
3.1.2	Rope to meet clause 7.2.1		-
3.1.3	Elastic elongation		± 0.5%
3.1.4	Rope diameter		± 0.001 inches
3.1.5	Rope fabrication		-
3.1.6	Material characteristics		-
3.1.7	Breaking strength - lifeline supplied with factory termination		See Note 1
3.1.8	Single anchor lifelines supplied with a factory termination		-
3.1.9	Breaking strength – lifeline supplied without factory termination		See Note 1
3.1.10	Dual purposes – Rope access / Descent control applications		-
3.1.11	Residual static strength		See Note 1
3.1.12.1	Breaking strength – wire rope lifeline		See Note 1
3.1.12.2	Diameter and construction		± 0.001 inches
3.1.12.3	Factory terminations		-
3.2.1	Connectors		See report
3.2.2	Non-integral energy absorber and energy absorbing lanyards		See report
3.2.3.3	Breaking strength – lanyards integral to fall arresters		See Note 1
3.2.3.4	Integral connectors – lanyards integral to fall arresters		See report
3.2.4	Locking		-
3.2.5	Dynamic performance (Manual override)	Force	± 3.0%
		Fall distance	± 0.04 inches
3.2.8	Integral rings and openings		-
3.2.9	Static strength		See Note 1
3.2.10	Dynamic performance – ambient	Force	± 3.0%
		Fall distance	± 0.04 inches
	Dynamic performance – various conditions	Force	± 3.0%
		Fall distance	± 0.04 inches
3.2.11	Function test		-
3.2.12	Residual static strength		± 1.7%
3.2.13	Corrosion resistance		-
5.1 / 5.2	Marking requirements		See Note 1
5.3 / 5.4	Instruction requirements		See Note 1

Note 1 The acceptance criterion for this test is a straightforward “Pass/Fail”, rather than a numerical value. Consequently, as there is no value to be reported, uncertainty has not been reported either.

Note 2 The uncertainty value is based on a standard uncertainty multiplied by a coverage factor k = 2, which provides for a confidence level of approximately 95%. Values expressed as a percentage (%) are relative.

Note 3 It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria.

ANNEX

This Annex comprises two sections.

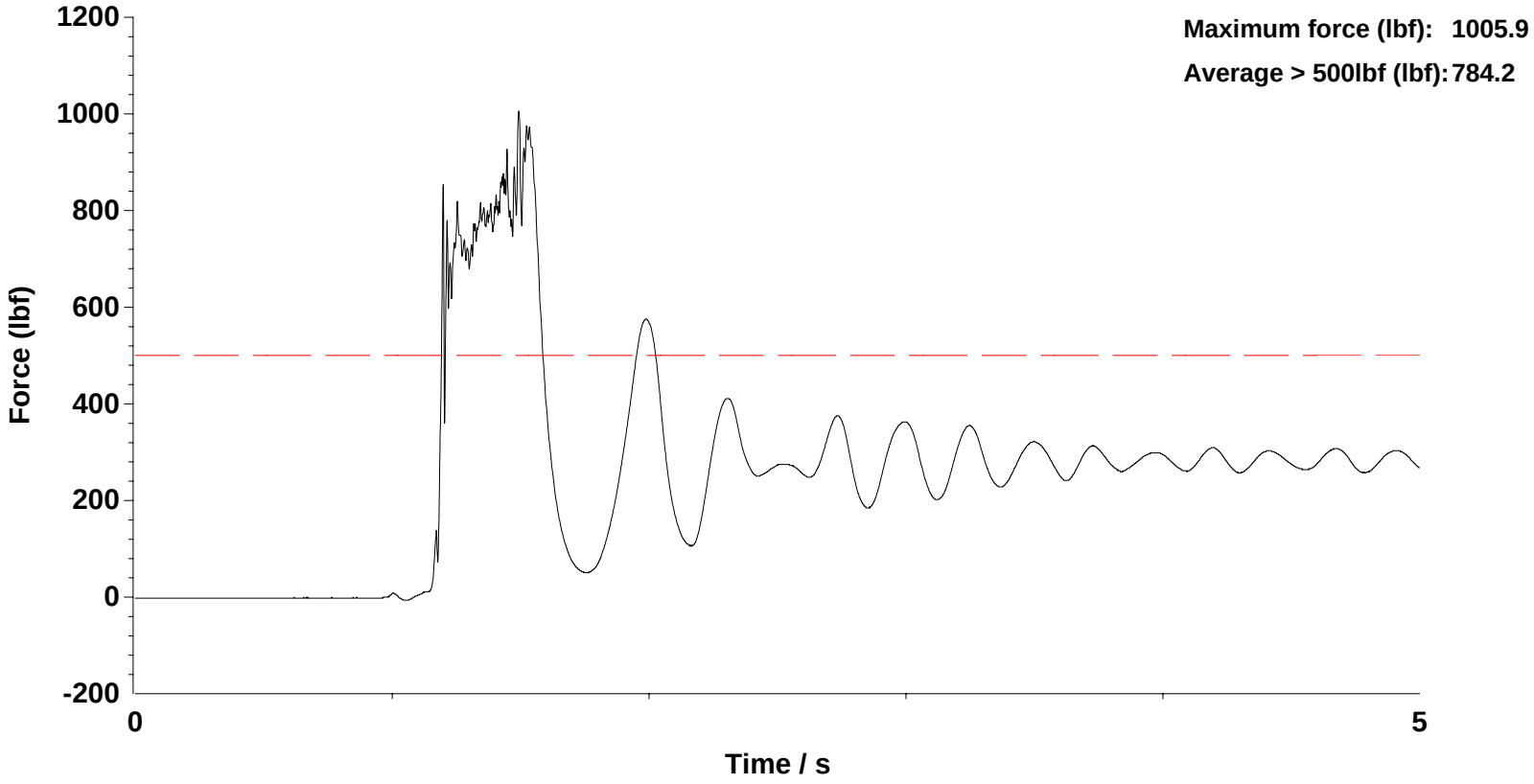
1. Plots of arrest force versus time. (15 pages)

2. Photograph of the product tested. (1 page)

END OF REPORT

INSPEC Technical Services

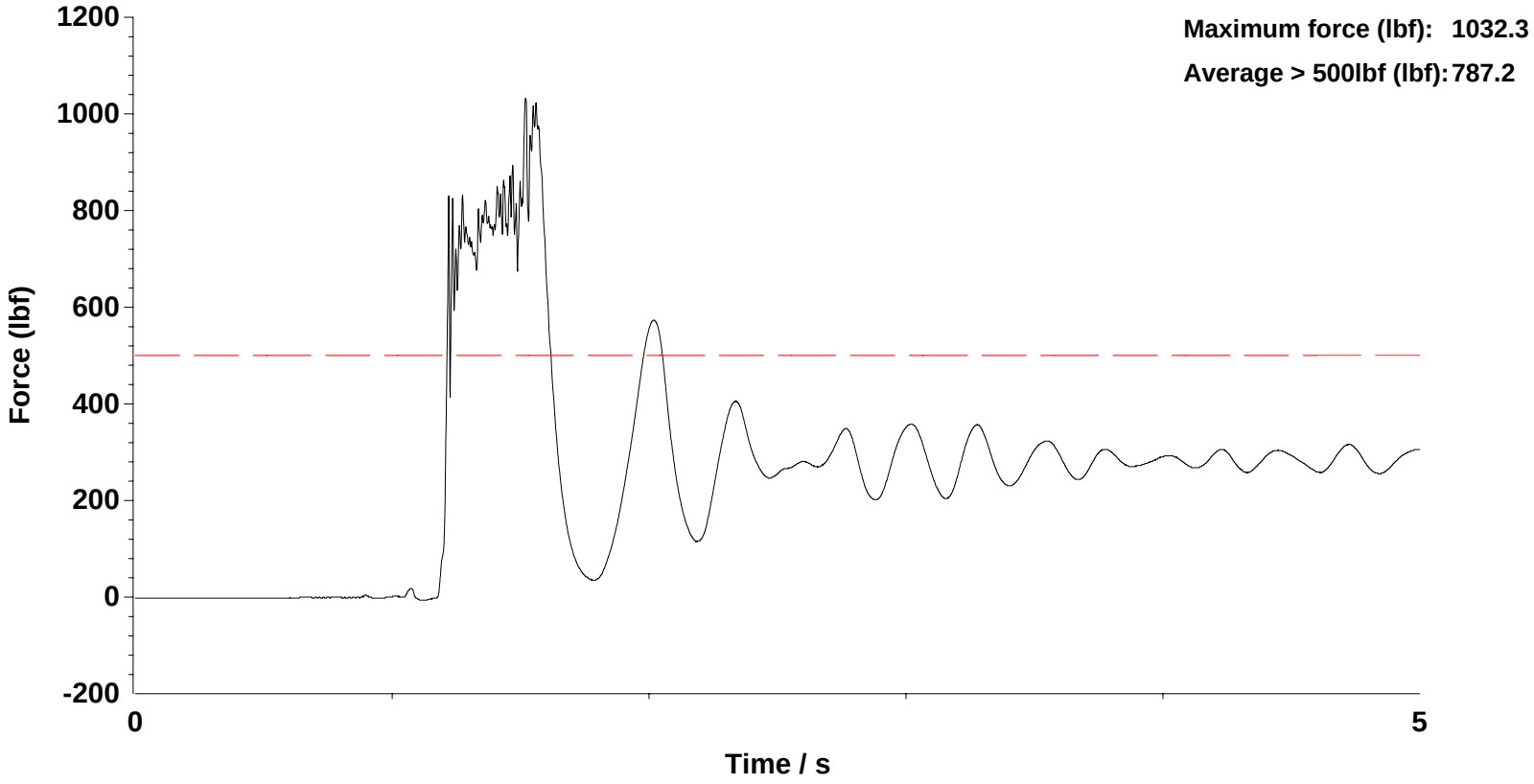
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04301
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	15:58 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

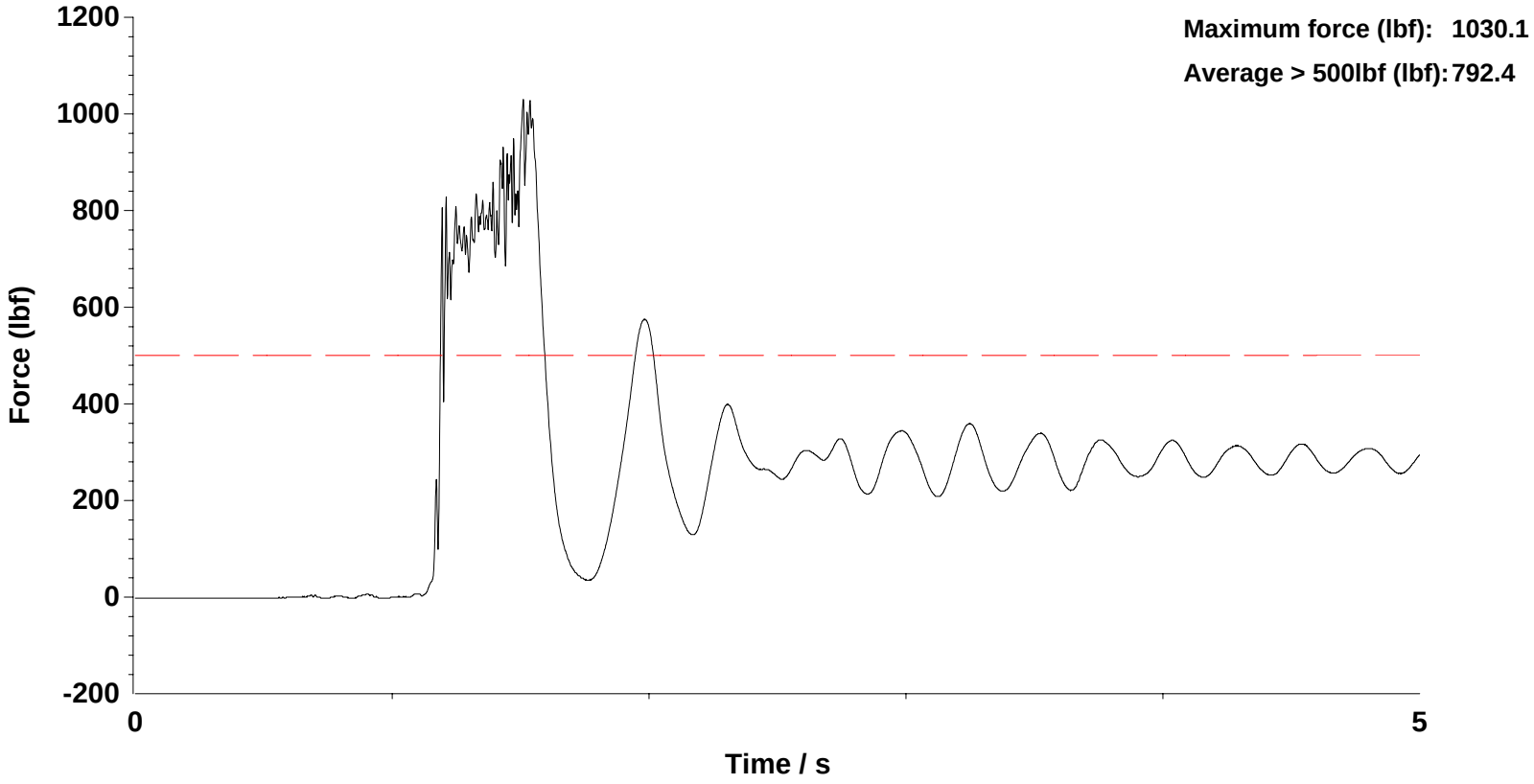
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04302
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	16:08 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

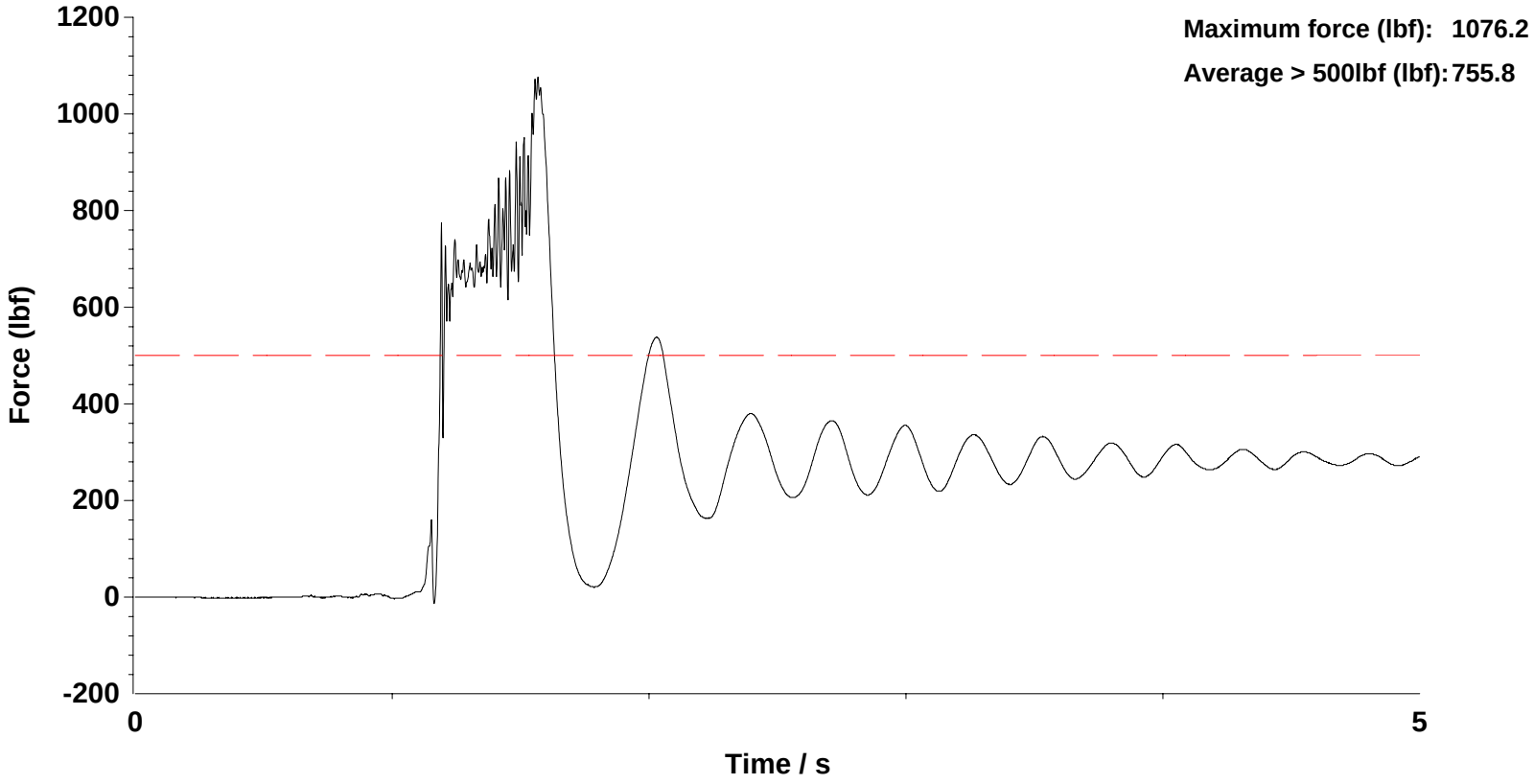
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04303
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	16:17 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

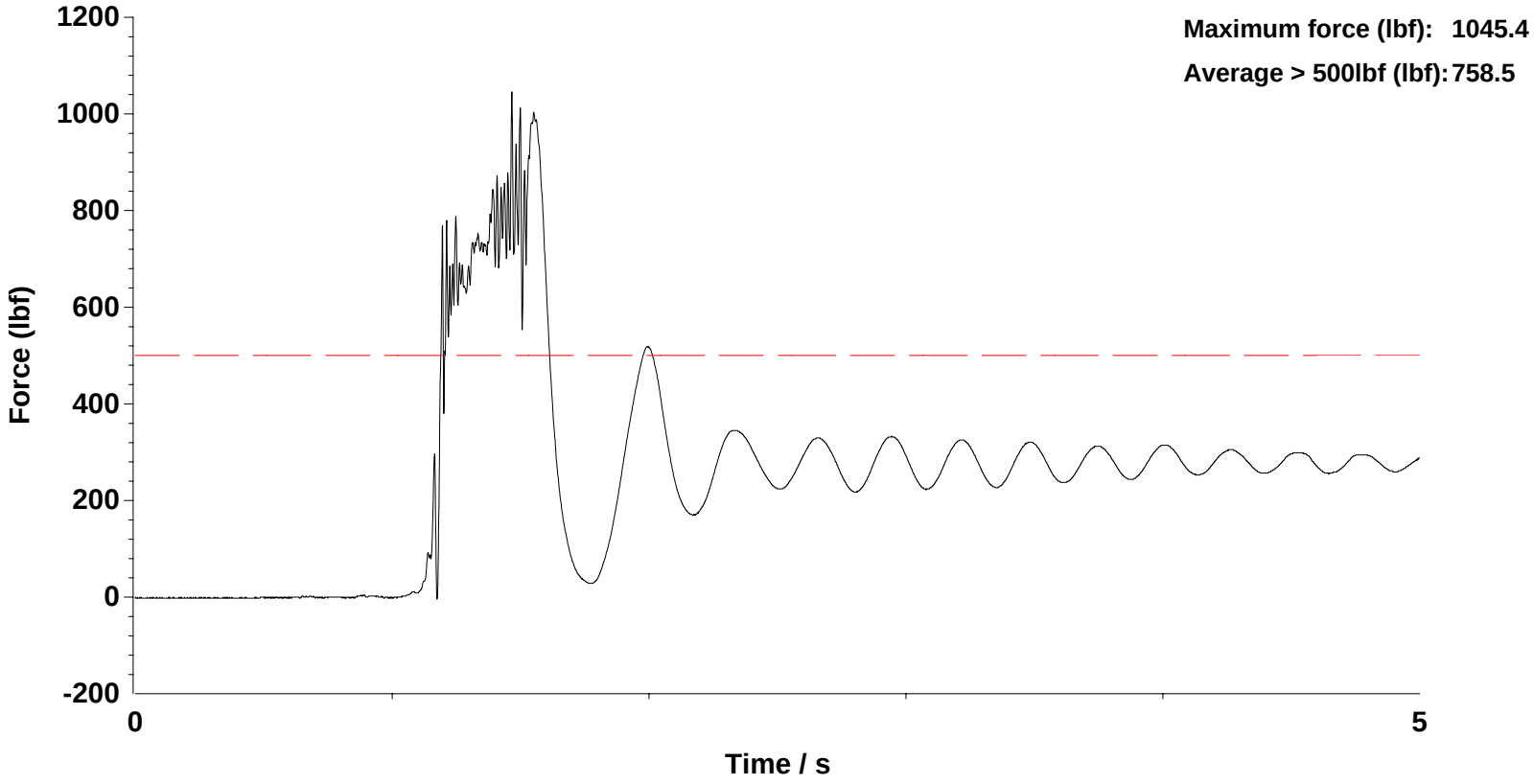
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04304
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	16:28 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

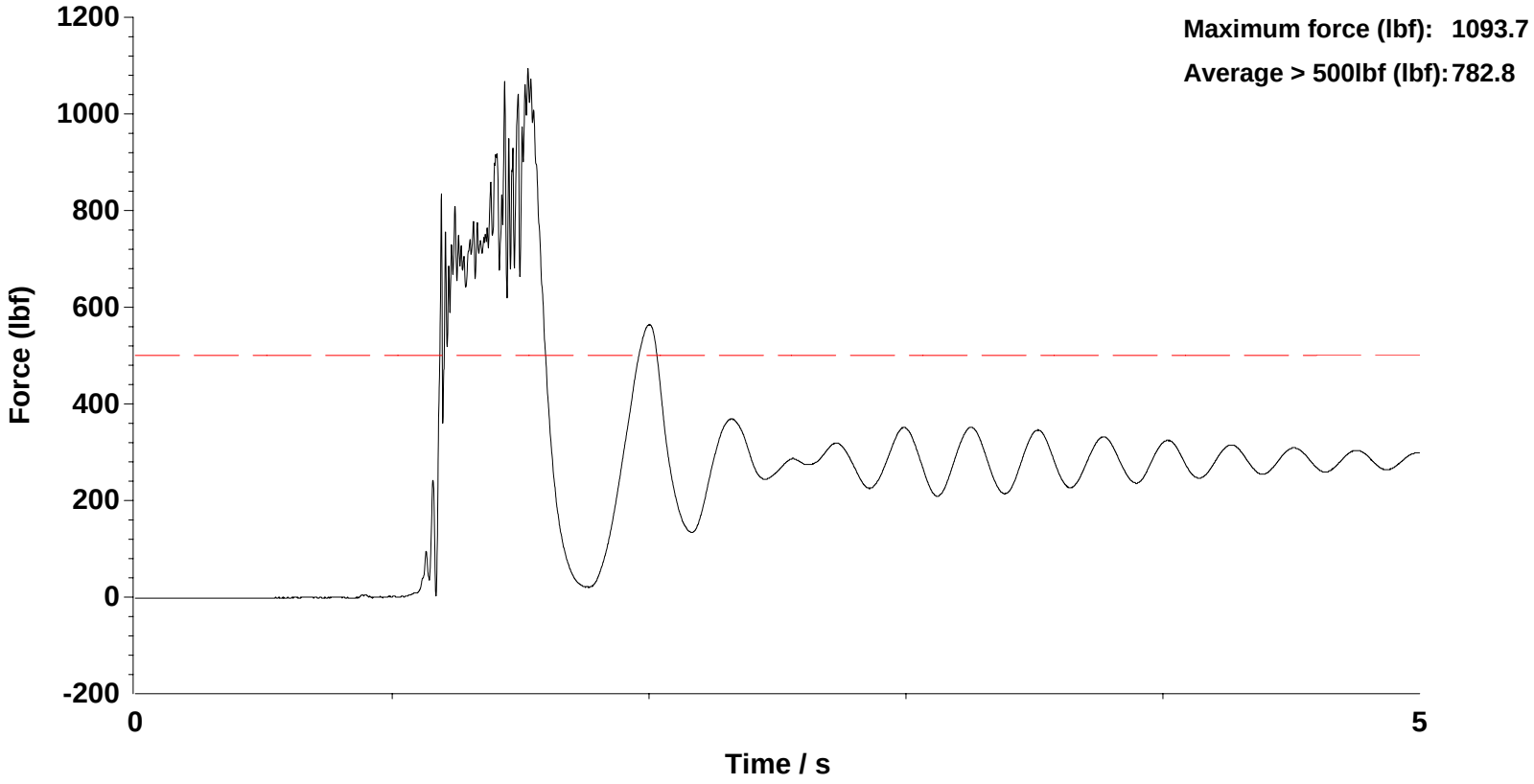
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04305
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	16:37 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

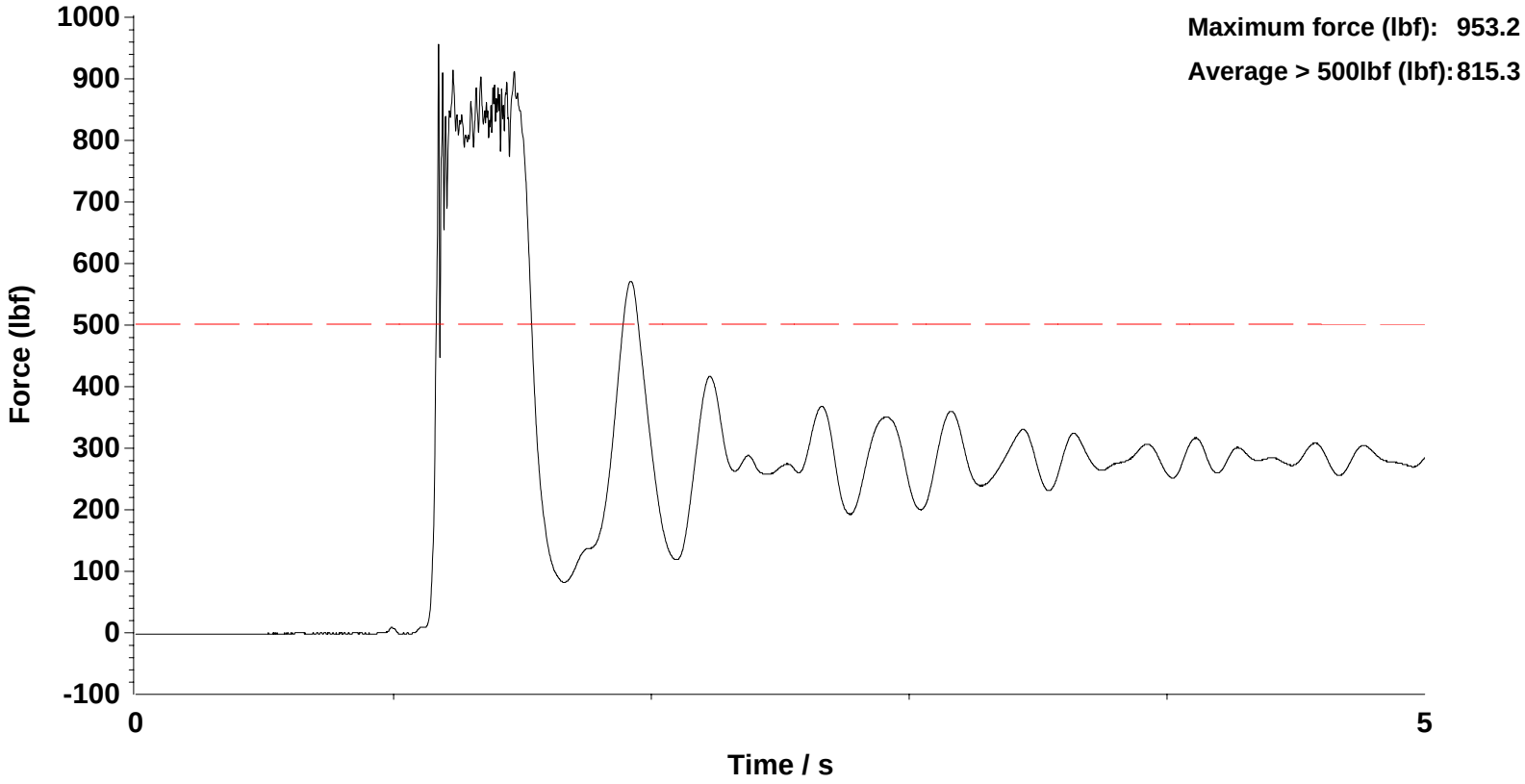
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04306
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	16:43 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

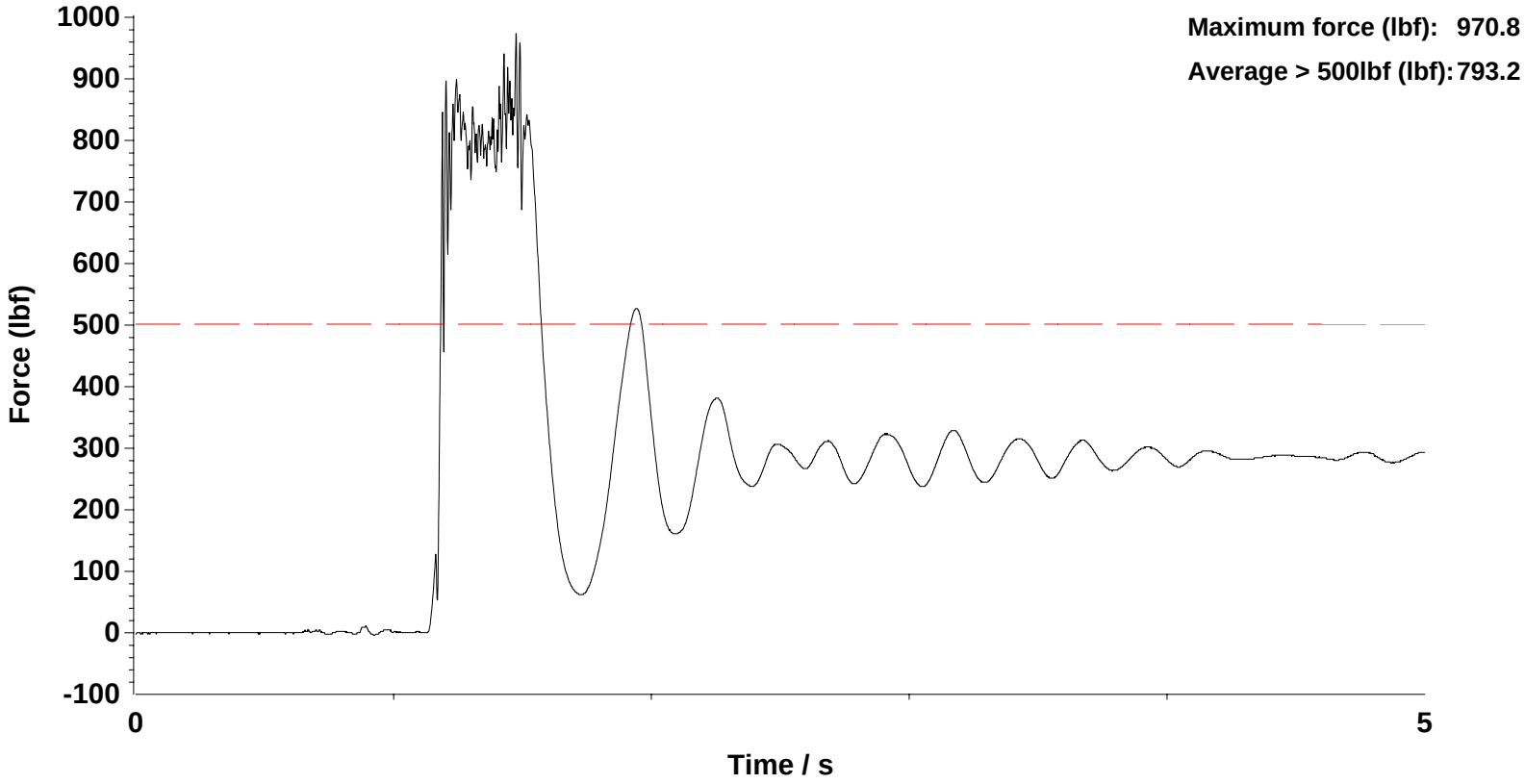
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04307
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	16:49 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

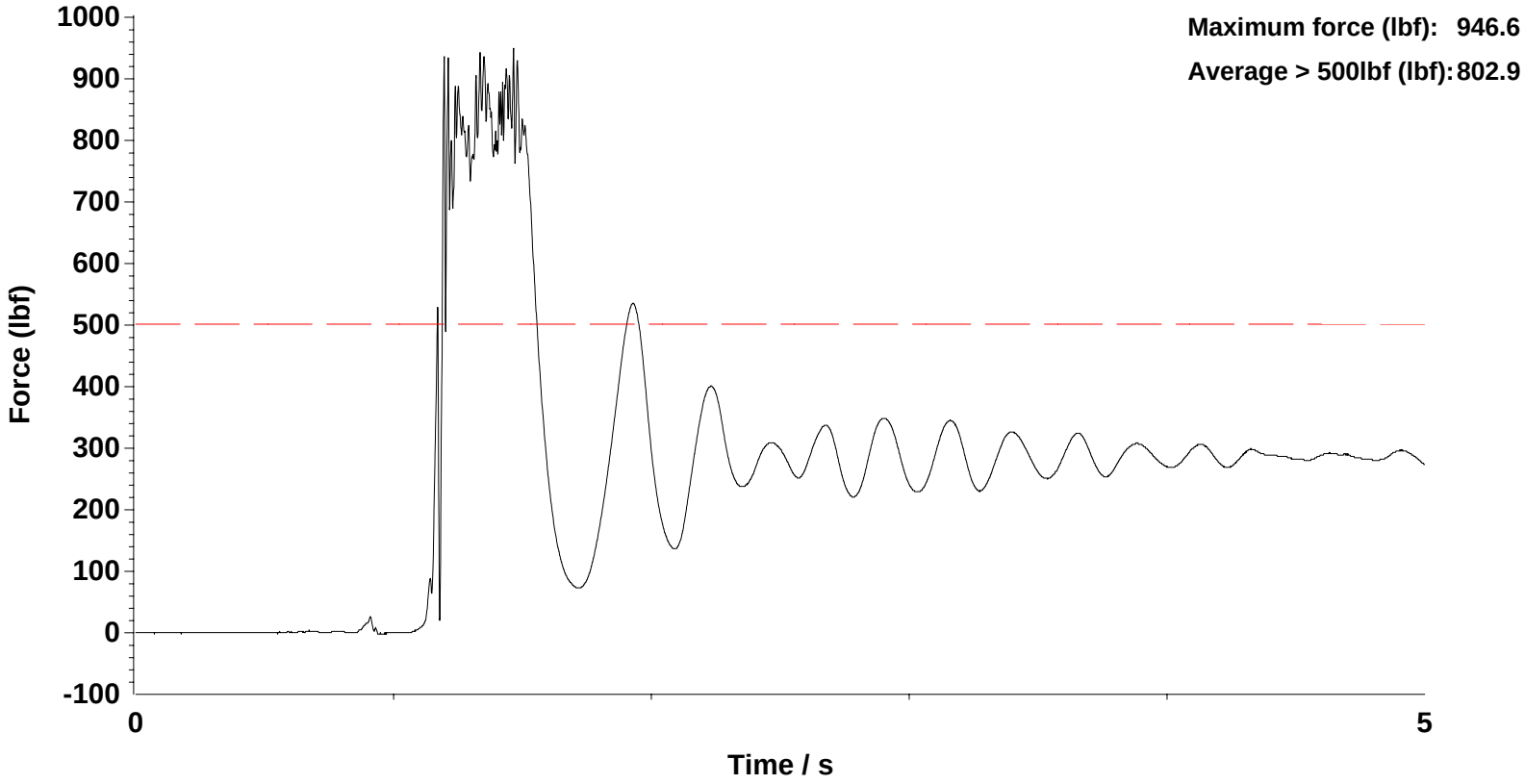
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04308
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	16:56 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

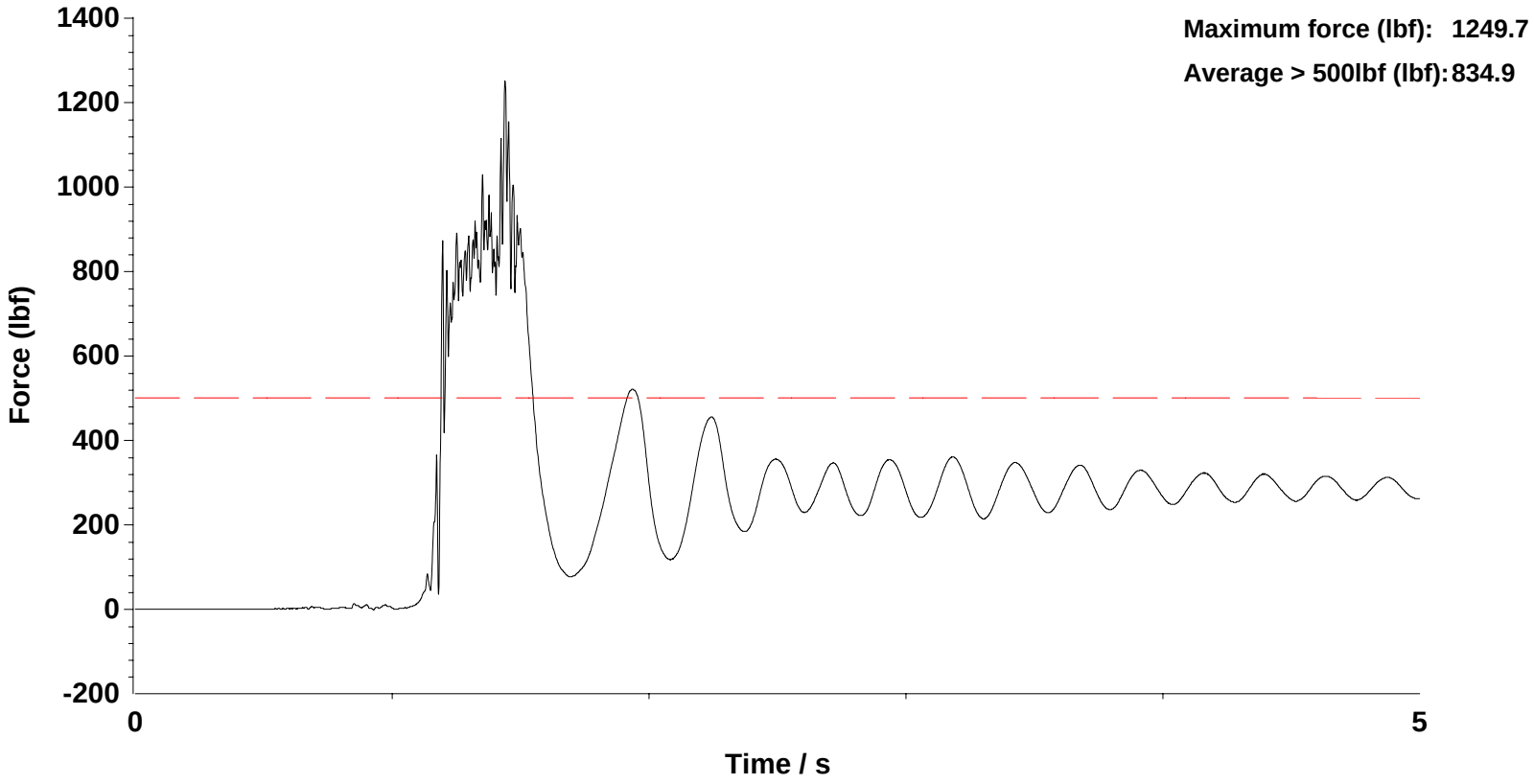
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04309
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	17:02 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

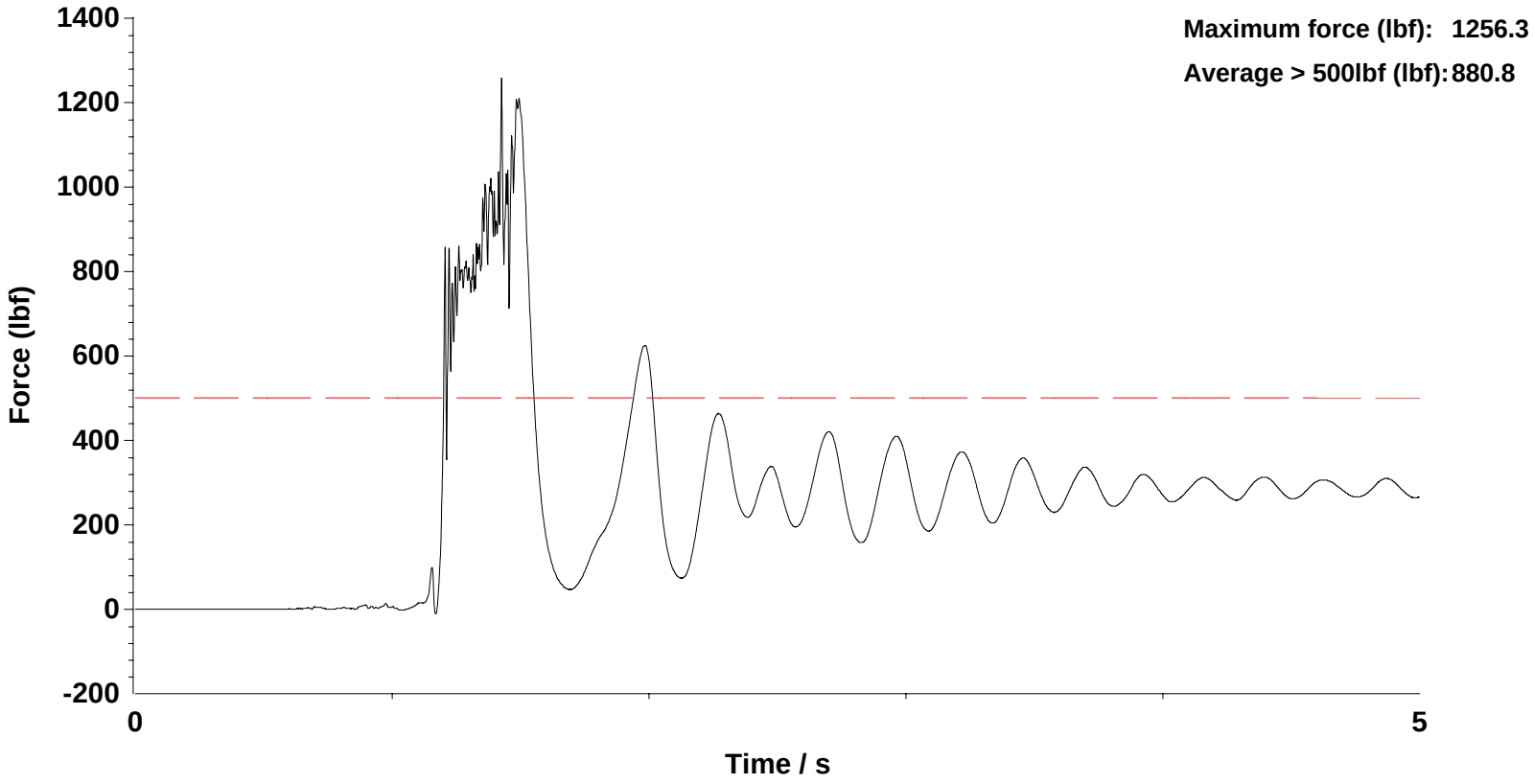
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04310
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	17:15 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

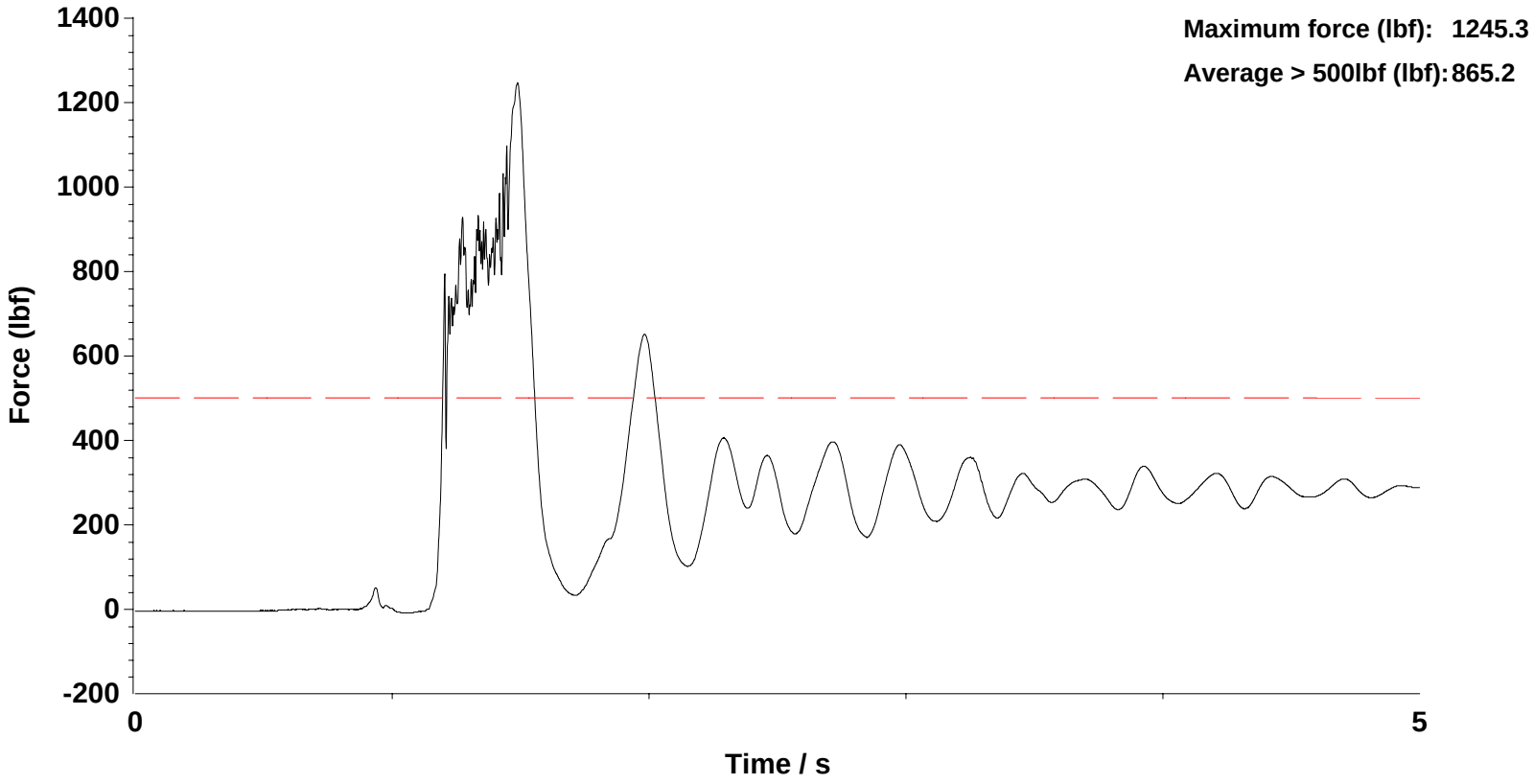
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04311
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	17:22 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

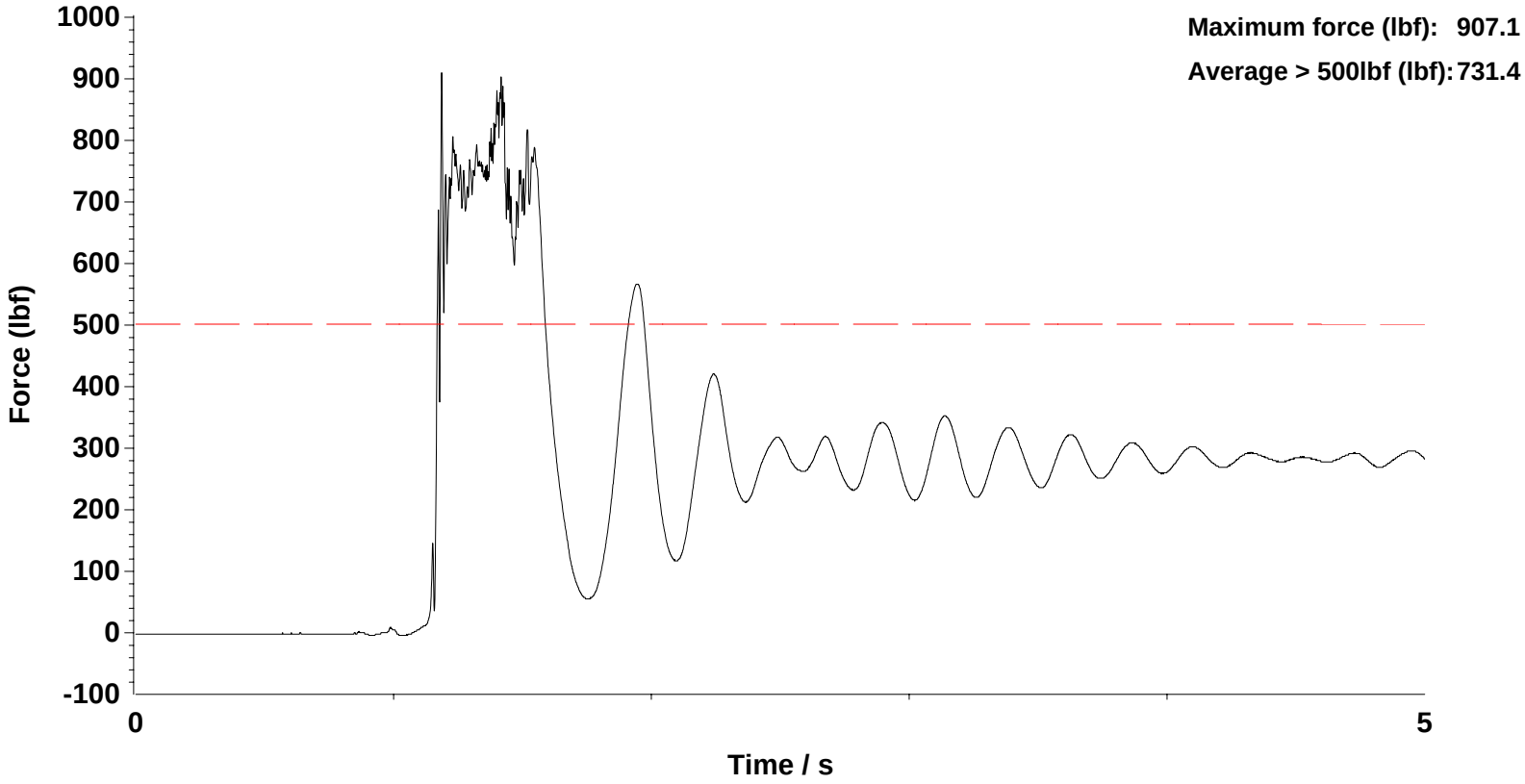
Technician:	LJ/SS
Standard	ANSI Z359.15-2014 Single Anchor Lifeline & Fall arrester
Sample / File name:	2G04312
Drop item	Drop mass 128 kg U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	17:09 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

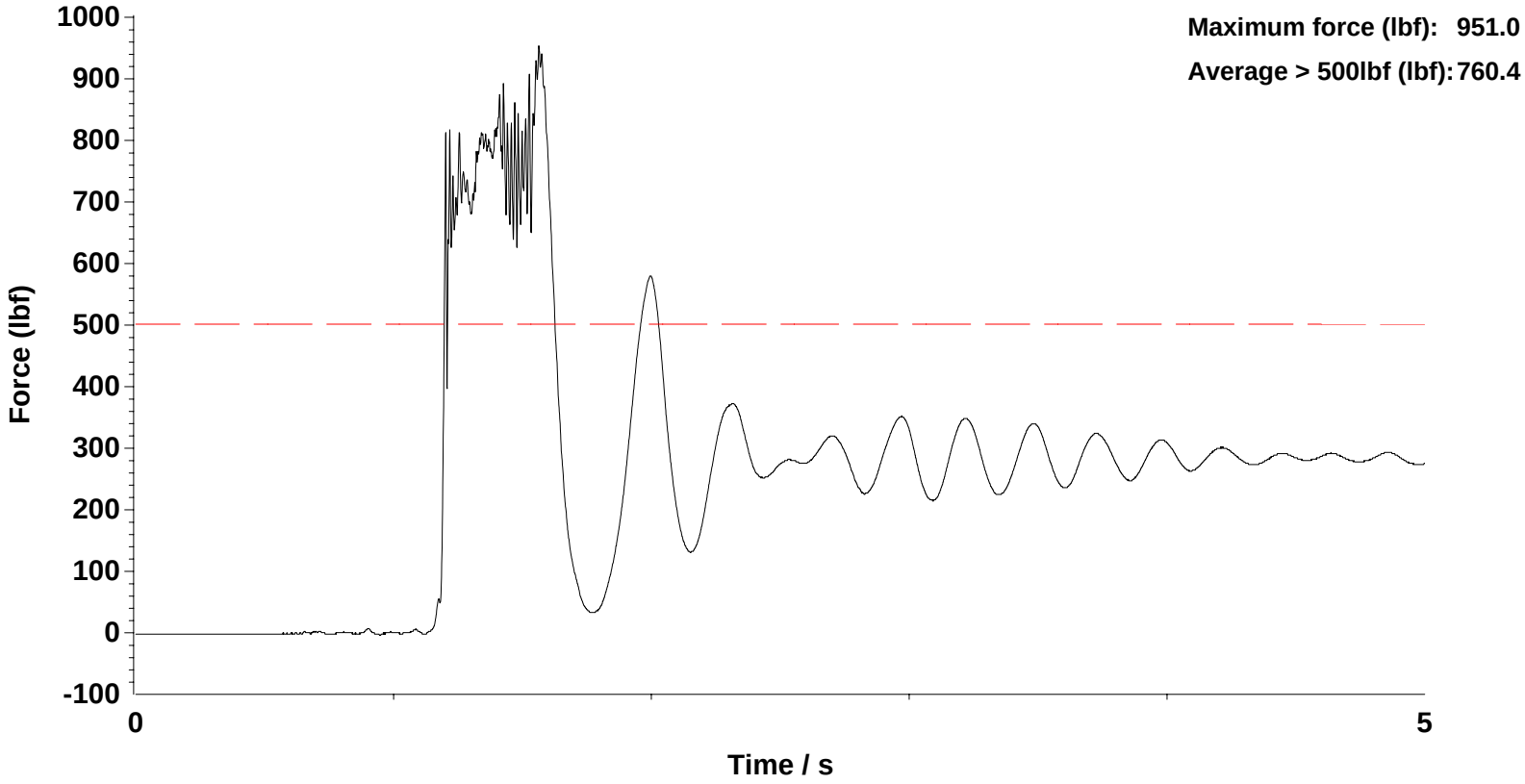
Technician:	SS/LJ
Standard	ANSI Z359.15-2014 Single anchor lifeline+FA
Sample / File name:	2G04313
Drop item	Drop weight, U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	18:47 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

INSPEC Technical Services

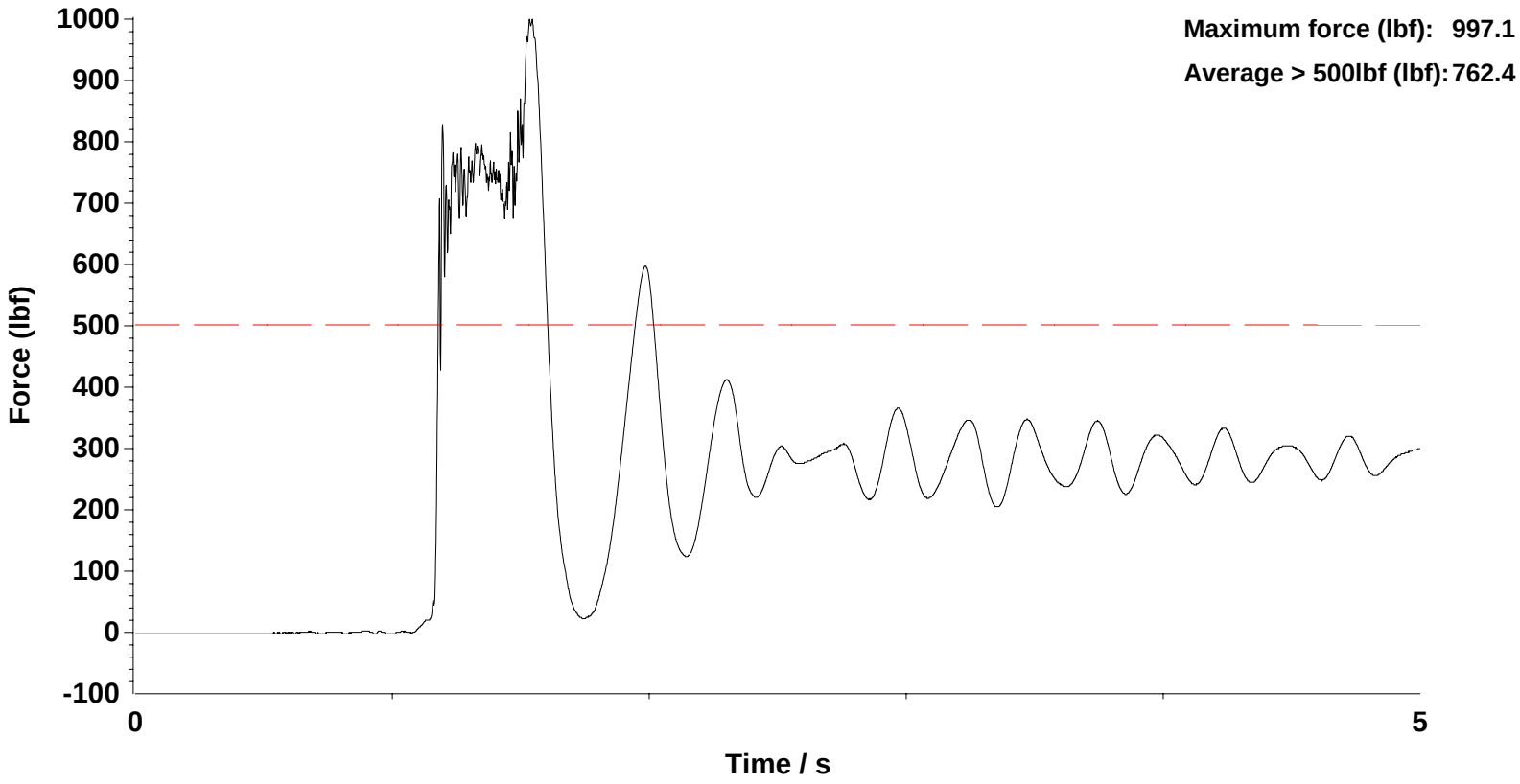
Technician:	SS/LJ
Standard	ANSI Z359.15-2014 Single anchor lifeline+FA
Sample / File name:	2G04314
Drop item	Drop weight, U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	18:57 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

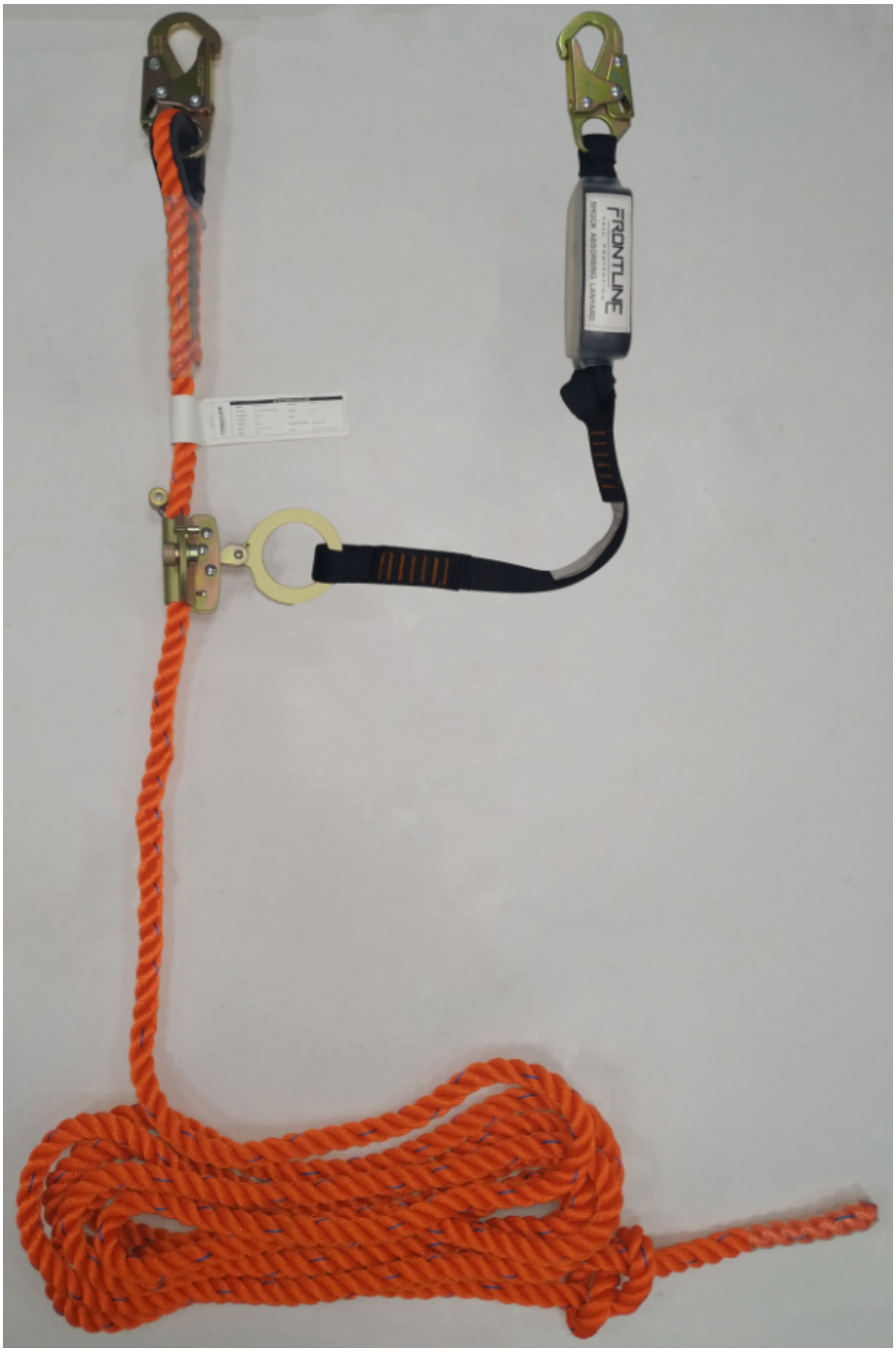
INSPEC Technical Services

Technician:	SS/LJ
Standard	ANSI Z359.15-2014 Single anchor lifeline+FA
Sample / File name:	2G04315
Drop item	Drop weight, U.S
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	19:05 30/04/19



Results do not achieve full ANAB status until a formal test report has been issued.

Frontline Fall Protection Inc. –
Fall arrester, model RGSS58ES with Single Anchor Lifeline



Photograph provided by manufacturer 10 December 2020