APPLIED TECHNICAL SERVICES

1049 Triad Court, Marietta, Georgia 30062 • (770) 423-1400 Fax (770) 424-6415

MATERIALS TEST REPORT

Ref. 352260 Rev1 **Date** April 14, 2021 **Page** 1 **of** 3

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Lifesaving Systems
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Purchase Order #: 4328

Test Procedure

Shear	☐
Load	☐
Impact	☐
Density	☐
Bend	☐
Fatigue	☒
Fracture Toughness	☐

Sample: V-ring and webbing strap assembly

Test Method: The sample was pinned within a clevis on each end and placed in the load frame. The sample was then fatigued between 450lbf and 5lbf for 50,000 cycles at 1hz. Results of the test are listed in Table I below.

Testing performed in ambient temperature and humidity conditions

Test Frame: Sample was tested with 5000lbf load cell ATS-06705 on fatigue frame ATS-06201.

Table I – Test Results

Maximum Load (lbf)	Minimum Load (lbf)	Notes
451	4	Completed 50,000 cycles without failure

ISO 9001

Prepared by: Tyler Moore 2021.04.16 16:56:44 -04'00' Tyler Moore
Materials Testing

Approved by: Brendan Angus 2021-04-16 16:37:11 Brendan Angus
Materials Testing

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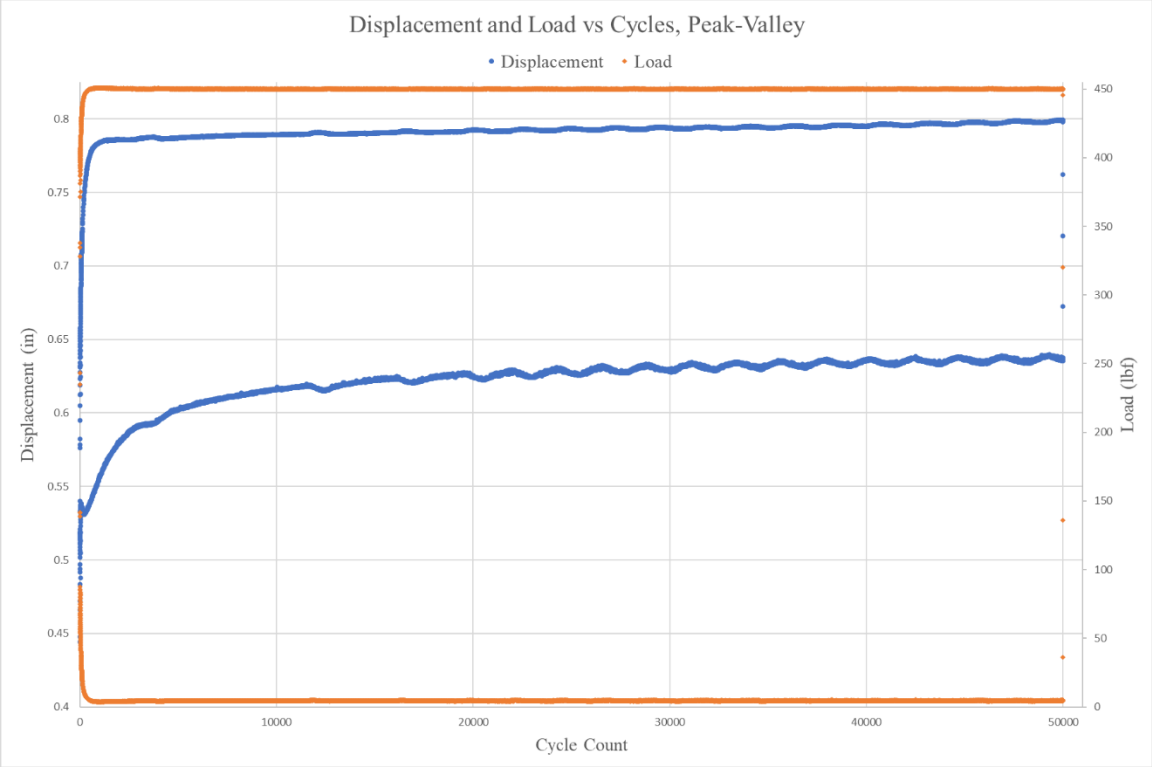

Figure 1: Displacement and Load Peak-Valley versus cycle count*

*Added graph of test data

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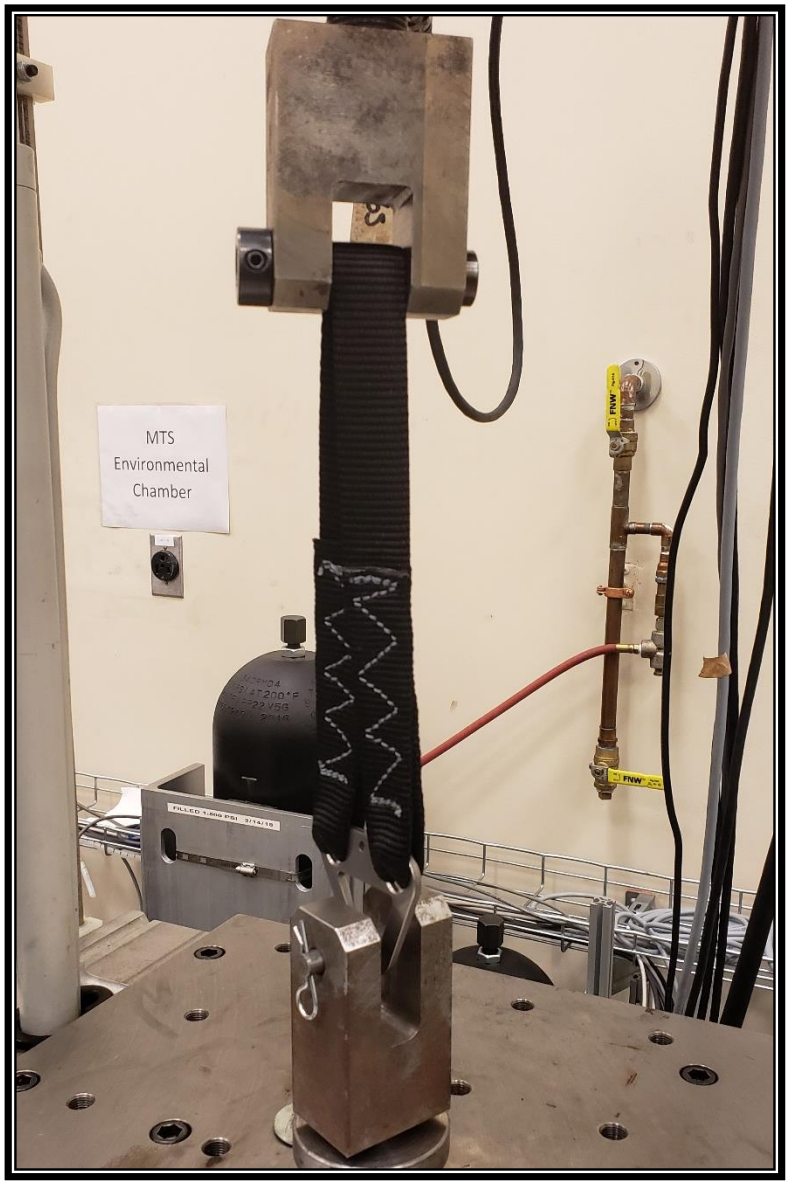

Figure 2: Test setup*

*Added test setup picture