

Project Number: 15087

Page: 1 of 4
Date: 08/17/15

TESTLINK SERVICES, INC.
903 Guthrie St.
P.O. Box 221
De Soto, IA 50069

Report of Product Testing
Performed on a **Jacking Accessory**
in Accordance with Clients Request
Model/Part Nos.: **(D-Lift adaptor)**

Prepared for:
JeepsNeeds
Attn.: Alex Cho
43567 Mink Meadows St
Chantilly, VA 20152

This report prepared by:

Carl C. Andreasen
Project Engineer
Product Evaluation Dept.
Phone: 515-834-9050

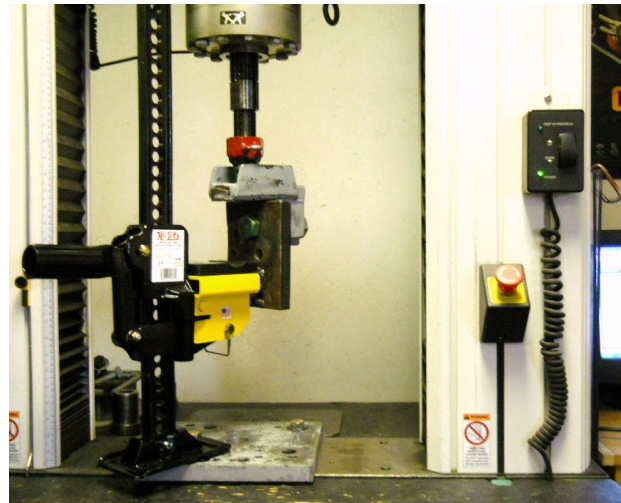
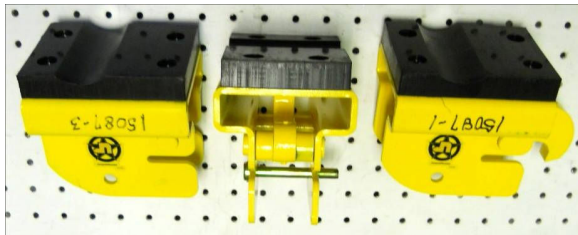
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Introduction:

This report presents the results of testing performed on a D-Lift adaptor (a Hi-Lift jack accessory) in accordance with the clients’ phone and email request of 07-22-15 (to test the strength of a DLA). This work was requested by Drake Cho of JeepsNeeds and was partially prepaid per TSI #587. The product was received on August 4, 2015 with the work conducted on August 17, 2015.

Results:

Specimen / Part Number (one specimen supplied of each design)	Test Extension / Lift Height	Static Load to Fail, Pounds
1 / DLA (used with Hi-Lift jack 484)	8"	6,043 – broke jack jaw



As Received And As Set Up For Test With D-ring

Instrumentation:

The test equipment used is an Instron Model 3385H, serial #3217 with an NIST traceable calibration due date of December 15, 2015.

Test Procedure:

A suitable D-ring is locked into the D-lift adaptor as recommended by the manufacturer. In trial 1, a downward force is applied over the pivot point of the D-ring connection to simulate the weight location of a Jeep. In trial 2, the force is applied at the center of the “cradle recess” in the non-scratch pad. Static proof loads are maintained at the maximum specified level for at least 5 seconds. The force application (load point) and the bottom of the jack post are restrained from lateral movement during testing. The jack is set so that only the top latch pin is engaged and handle is in “a jacking, non-locked position”.

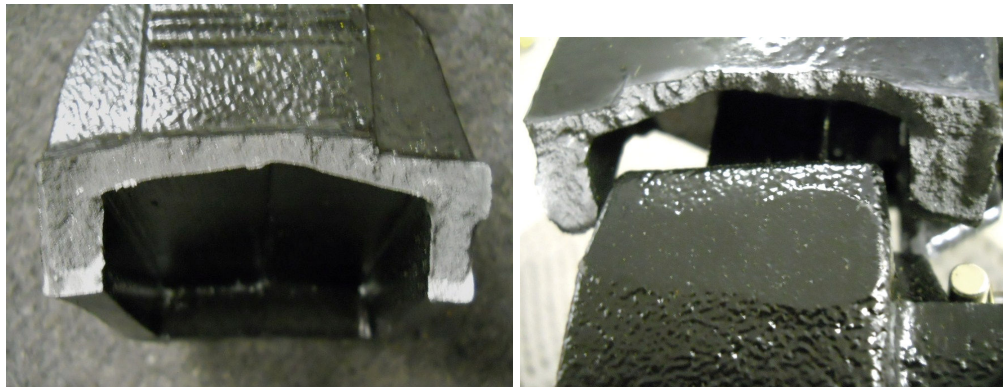
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Sample Description:

Type of Device: High-Lift Jack – ratcheting, post style with **D-Lift adaptor** on lifting lug.

TEST RESULTS:

HI-LIFT HL-484 (48" - 4,660 lbs./2273kg rated capacity at 48")				
Accessory Lift Surface Test Height / Jack Support	Requested Static Test Load	Downward Load Location	Maximum Load Achieved, Pounds	Comments
8" / Laterally supported post top, base secured on flat steel plate	Attempt Failure	Through D-ring anchor	6,043	0.75" displacement when jack break occurred
		On Pad	-	No Test – jack broken



Lifting lug broke off of jack at 6,034 lbs.

Product Description: (nominal inches)

D-Lift Adaptor

Distributor / part number (name)	Date code	Mounting bracket, Inches	Lift plate - jaw, Inches	Load point from post, Inches	
JeepsNeeds / DLA	None Found	0.18 x 3.9 x 4.6 x 4.0 O.D. formed w/ 5/8 hook on 5/8 pin	0.75 x 3.5 x 4.5 O.D. poly	5.5 for D-ring	3.5 for pad recess

Jack

Distributor / part number (lift)	Date code	Base area, Inches	Post dimensions, Inches	Jaw dimensions, Inches	Load point from post, Inches	Top pin (under load - in test)
Hi-Lift / HL-484 (48")	EG7 & C10 on jaw	0.25 x 4.5 x 7.0	0.87 x 2.0 x 46 I-beam (0.39 web)	1.5 x 4.5 at base	5.5 to D-ring anchor point	0.56 x 2.6 with taper

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Sample Disposition:

Unless other arrangements are presented in writing, the test samples from this project will be disposed of 30 days from the date on this report. Return shipping arrangements are the responsibility of the client and are to be done on a “will call” basis within two weeks of the completion of the testing.

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