765 S Pierce Ave
303-665-6901

Louisville, CO 80027
303-665-7021 (Fax)

Late Model Mustang Driveshaft

Test performed on 2/1/2012 and report prepared by Andrew Dickson.

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Purpose:
To find the ultimate torsional strength of a single part sample.

Parts Tested:

Sample 1: 3.5" Aluminum Driveshaft Approx. 58.25" Long

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Preliminary Notes:

Adapters were made to allow the driveshaft to be bolted directly to the torsion machine.

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Procedure:

The sample was set up in the torsion machine as presented in the photographs to follow. The output of the torque cell was read by a data acquisition computer and plotted in relation to the angular displacement of the axle. Angular displacement was read by an encoder and recorded by the data acquisition system as well.

The accuracy of the load cell is +/- 100 Ft Lbs and the accuracy of the encoder system is +/- 0.75 degrees.

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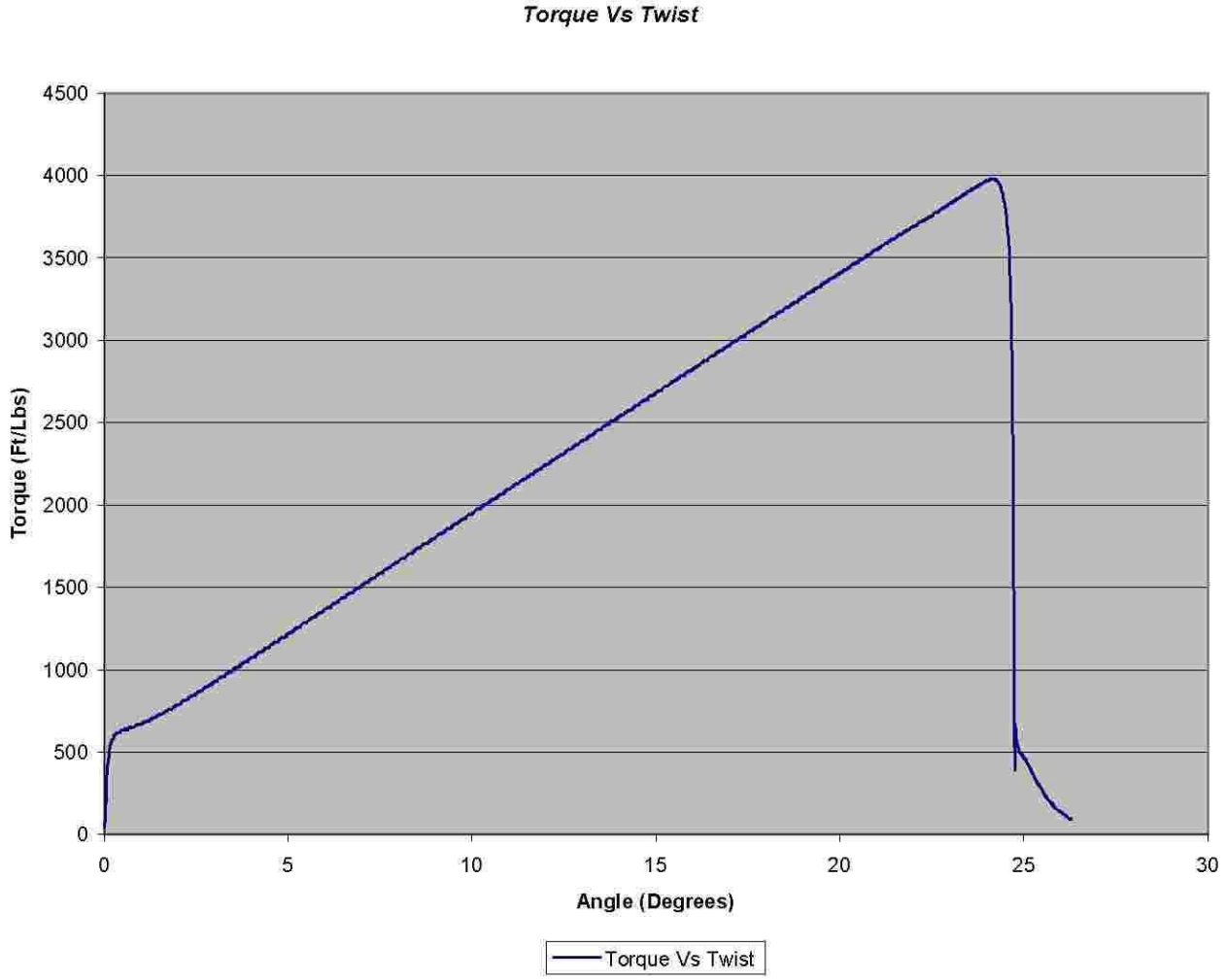
Test Results:

Test 1 – test # 2120121157



Ultimate failure was achieved at 3973 Ft/Lbs. at 24.3 degrees. Failure was at the weld near the slip coupler.

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