



ECS, Ltd
 9001 Glenwood Avenue
 Raleigh, North Carolina 27617
 Phone (919) 861-9910
 Fax (919) 861-9911
 www.ecslimited.com

CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST FOR COHESIVE SOILS

D - 4764

PROJECT INFORMATION

SAMPLE INFORMATION

NAME	Carolina Stalite Company	DESCRIPTION	5/16 Aggregate
NUMBER	13340-A	BORING	Bulk
DATE	Monday, August 08, 2005	NUMBER	
ENGINEER	J Wall	DEPTH	

SAMPLE PREPARATION

SPECIMEN NUMBER	S-1	S-2	S-3
TYPE OF SPECIMEN	REMOLED	REMOLED	REMOLED
LENGTH (in)	6.00	6.00	6.00
DIAMETER (in)	2.98	2.98	2.98
AREA (in ²)	6.97	6.97	6.97
VOLUME (ft ³)	0.024	0.024	0.024
MASS (gr)	514.30	514.50	504.02
MASS (lb)	1.13	1.13	1.11
WET UNIT WEIGHT (lb/ft ³)	52.2	52.2	51.1
DRY UNIT WEIGHT (lb/ft ³)	50.1	50.1	49.1

MOISTURE CONTENT CALCULATION

TARE NUMBER	300.0	300	300
TARE MASS (gr)	109.8	109.84	109.84
WET MASS (gr)	446.3	446.30	446.30
DRY MASS (gr)	433.1	433.05	433.05
MOISTURE CONTENT	4.1%	4.1%	4.1%

SATURATION STAGE (1 OF 2)

SPECIMEN NUMBER	S-1	S-2	S-3
BACK PRESSURE (PSI)	17.00	17.00	17.00
INITIAL BURETTE MARK (cm ³)	0.00	0.00	0.00
FINAL BURETTE MARK (cm ³)	10.00	10.00	10.00
B VALUE	0.0%	0.0%	0.0%
BACK PRESSURE (PSI)	17.00	17.00	17.00
INITIAL BURETTE MARK (cm ³)	0.00	0.00	0.00
FINAL BURETTE MARK (cm ³)	10.00	10.00	10.00
B VALUE	100.0%	100.0%	100.0%
BACK PRESSURE (PSI)			
INITIAL BURETTE MARK (cm ³)			
FINAL BURETTE MARK (cm ³)			
B VALUE			
BACK PRESSURE (PSI)			
INITIAL BURETTE MARK (cm ³)			
FINAL BURETTE MARK (cm ³)			
B VALUE			
BACK PRESSURE (PSI)			
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SHEAR STAGE FOR SPECIMEN 1 (1 OF 2)

AXIAL STRAIN	AREA (in ²)	AX LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.000	6.729	0.000	0.000	0.000	1.000	1.000	0.000
0.003	6.747	13.900	2.060	0.200	0.800	1.830	1.030
0.006	6.768	20.700	3.059	0.400	0.600	2.129	1.529
0.008	6.786	26.500	3.905	0.500	0.500	2.453	1.953
0.011	6.805	31.200	4.585	0.600	0.400	2.692	2.292
0.014	6.825	36.300	5.319	0.600	0.400	3.059	2.659
0.017	6.843	38.600	5.640	0.600	0.400	3.220	2.820
0.020	6.863	42.100	6.134	0.600	0.400	3.467	3.067
0.022	6.883	45.800	6.654	0.600	0.400	3.727	3.327
0.025	6.902	48.400	7.013	0.500	0.500	4.006	3.506
0.028	6.921	52.600	7.600	0.500	0.500	4.300	3.800
0.030	6.939	56.500	8.143	0.400	0.600	4.671	4.071
0.033	6.960	63.700	9.152	0.300	0.700	5.276	4.576
0.036	6.980	64.700	9.270	0.200	0.800	5.435	4.635
0.039	7.000	71.900	10.271	0.200	0.800	5.936	5.136
0.041	7.020	75.800	10.798	0.100	0.900	6.299	5.399
0.044	7.040	80.200	11.391	0.000	1.000	6.696	5.696
0.047	7.063	82.300	11.653	-0.100	1.100	6.927	5.827
0.050	7.082	88.900	12.552	-0.300	1.300	7.576	6.276
0.053	7.104	94.400	13.289	-0.400	1.400	8.045	6.645
0.055	7.124	95.800	13.448	-0.500	1.500	8.224	6.724
0.058	7.144	102.600	14.362	-0.500	1.500	8.681	7.181
0.061	7.164	106.300	14.838	-0.600	1.600	9.019	7.419
0.063	7.184	114.000	15.868	-0.800	1.800	9.734	7.934
0.066	7.206	117.900	16.361	-0.900	1.900	10.080	8.180
0.069	7.227	122.100	16.895	-1.000	2.000	10.448	8.448
0.072	7.249	129.300	17.837	-1.200	2.200	11.119	8.919
0.074	7.270	133.100	18.309	-1.300	2.300	11.454	9.154
0.077	7.293	140.300	19.236	-1.500	2.500	12.118	9.618
0.080	7.315	144.500	19.755	-1.700	2.700	12.578	9.878
0.083	7.337	155.400	21.180	-1.800	2.800	13.390	10.590
0.086	7.359	154.000	20.928	-1.900	2.900	13.364	10.464
0.089	7.383	167.300	22.661	-2.100	3.100	14.430	11.330
0.091	7.403	173.100	23.382	-2.300	3.300	14.991	11.691
0.094	7.425	173.800	23.408	-2.400	3.400	15.104	11.704
0.096	7.447	179.600	24.118	-2.500	3.500	15.559	12.059
0.099	7.469	185.400	24.823	-2.700	3.700	16.112	12.412
0.102	7.492	188.700	25.186	-2.900	3.900	16.493	12.593
0.105	7.515	196.600	26.162	-3.000	4.000	17.081	13.081
0.107	7.539	193.500	25.668	-3.100	4.100	16.934	12.834
0.110	7.563	197.300	26.089	-3.200	4.200	17.245	13.045
0.113	7.588	201.900	26.607	-3.300	4.300	17.604	13.304



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PROJECT INFORMATION

SAMPLE INFORMATION

NAME	Carolina Stalite Company	DESCRIPTION	5/16 Aggregate
NUMBER	13340-A	BORING	Bulk
DATE	Monday, August 08, 2005	NUMBER	
ENGINEER	J Wall	DEPTH	

SHEAR STAGE FOR SPECIMEN 1 (2 OF 2)

AXIAL STRAIN	AREA (in ²)	AX LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.116	7.612	212.400	27.902	-3.500	4.500	18.451	13.951
0.119	7.635	224.000	29.337	-3.700	4.700	19.368	14.668
0.122	7.660	224.500	29.308	-3.900	4.900	19.554	14.654
0.124	7.683	231.700	30.156	-4.000	5.000	20.078	15.078
0.127	7.705	234.900	30.485	-4.200	5.200	20.442	15.242
0.129	7.729	241.500	31.246	-4.300	5.300	20.923	15.623
0.132	7.754	246.600	31.802	-4.400	5.400	21.301	15.901
0.135	7.778	250.100	32.154	-4.600	5.600	21.677	16.077
0.138	7.805	255.200	32.696	-4.700	5.700	22.048	16.348
0.141	7.831	266.100	33.980	-4.900	5.900	22.890	16.990
0.144	7.857	271.500	34.556	-5.100	6.100	23.378	17.278
0.146	7.883	268.000	33.997	-5.300	6.300	23.299	16.999
0.149	7.908	266.100	33.651	-5.300	6.300	23.125	16.825
0.152	7.933	284.300	35.840	-5.500	6.500	24.420	17.920
0.155	7.959	274.700	34.514	-5.600	6.600	23.857	17.257
0.157	7.984	282.600	35.395	-5.800	6.800	24.497	17.697
0.160	8.010	293.100	36.594	-5.900	6.900	25.197	18.297
0.163	8.038	251.900	31.337	-4.300	5.300	20.969	15.669
0.166	8.066	217.700	26.991	-2.800	3.800	17.296	13.496
0.169	8.095	178.700	22.076	-1.400	2.400	13.438	11.038
0.172	8.122	144.700	17.815	-0.500	1.500	10.407	8.907
0.174	8.150	129.600	15.901	0.000	1.000	8.951	7.951
0.177	8.178	128.900	15.761	-0.100	1.100	8.981	7.881
0.180	8.207	130.000	15.841	-0.100	1.100	9.020	7.920
0.183	8.235	124.000	15.058	-0.100	1.100	8.629	7.529
0.186	8.262	119.100	14.415	-0.100	1.100	8.308	7.208
0.188	8.291	125.600	15.149	-0.100	1.100	8.675	7.575
0.191	8.320	124.200	14.928	-0.200	1.200	8.664	7.464
0.194	8.346	121.000	14.498	-0.200	1.200	8.449	7.249
0.197	8.375	129.800	15.498	-0.100	1.100	8.849	7.749
0.199	8.403	129.300	15.387	-0.100	1.100	8.794	7.694
0.202	8.433	124.900	14.811	-0.100	1.100	8.506	7.406



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NUMBER	13340-A	BORING	Bulk
DATE	Monday, August 08, 2005	NUMBER	
ENGINEER	J Wall	DEPTH	

SHEAR STAGE FOR SPECIMEN 2 (1 OF 2)

AXIAL STRAIN	AREA (in ²)	AXI LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.000	6.769	0.000	0.000	0.000	3.000	3.000	0.000
0.003	6.788	2.300	0.339	0.000	3.000	3.169	0.169
0.006	6.807	7.400	1.087	0.000	3.000	3.544	0.544
0.008	6.825	19.000	2.784	0.400	2.600	3.992	1.392
0.011	6.843	33.500	4.895	0.800	2.200	4.648	2.448
0.014	6.863	41.400	6.032	1.000	2.000	5.016	3.016
0.017	6.883	46.500	6.756	1.200	1.800	5.178	3.378
0.019	6.900	52.500	7.608	1.300	1.700	5.504	3.804
0.022	6.921	57.400	8.293	1.300	1.700	5.847	4.147
0.025	6.940	58.400	8.415	1.300	1.700	5.907	4.207
0.027	6.959	66.700	9.584	1.300	1.700	6.492	4.792
0.030	6.980	72.100	10.330	1.200	1.800	6.965	5.165
0.033	6.999	76.000	10.859	1.100	1.900	7.329	5.429
0.036	7.019	83.200	11.853	1.000	2.000	7.926	5.926
0.038	7.039	86.000	12.218	0.900	2.100	8.209	6.109
0.041	7.058	92.600	13.119	0.700	2.300	8.859	6.559
0.044	7.078	99.500	14.057	0.500	2.500	9.529	7.029
0.046	7.098	102.600	14.455	0.400	2.600	9.827	7.227
0.049	7.120	110.900	15.575	0.200	2.800	10.588	7.788
0.052	7.140	117.400	16.442	0.000	3.000	11.221	8.221
0.055	7.162	115.100	16.071	-0.100	3.100	11.136	8.036
0.058	7.182	121.900	16.973	-0.200	3.200	11.686	8.486
0.061	7.205	126.700	17.585	-0.400	3.400	12.193	8.793
0.063	7.225	130.700	18.089	-0.500	3.500	12.544	9.044
0.066	7.247	138.600	19.124	-0.600	3.600	13.162	9.562
0.069	7.268	140.200	19.290	-0.800	3.800	13.445	9.645
0.072	7.290	141.600	19.423	-1.000	4.000	13.711	9.711
0.074	7.311	141.400	19.340	-1.000	4.000	13.670	9.670
0.077	7.332	154.400	21.057	-1.200	4.200	14.729	10.529
0.080	7.355	158.600	21.563	-1.300	4.300	15.082	10.782
0.082	7.376	169.100	22.924	-1.600	4.600	16.062	11.462
0.085	7.399	168.200	22.732	-1.700	4.700	16.066	11.366
0.088	7.421	174.700	23.542	-1.900	4.900	16.671	11.771
0.091	7.444	181.700	24.409	-2.100	5.100	17.304	12.204
0.093	7.466	177.200	23.735	-2.200	5.200	17.067	11.867
0.096	7.489	181.200	24.195	-2.400	5.400	17.497	12.097
0.099	7.511	188.600	25.108	-2.500	5.500	18.054	12.554
0.102	7.534	198.400	26.335	-2.600	5.600	18.767	13.167
0.104	7.558	207.000	27.390	-2.800	5.800	19.495	13.695
0.107	7.580	217.700	28.720	-3.000	6.000	20.360	14.360
0.110	7.604	224.900	29.575	-3.200	6.200	20.988	14.788
0.113	7.627	236.100	30.955	-3.300	6.300	21.778	15.478



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ENGINEER	J Wall	DEPTH	

SHEAR STAGE FOR SPECIMEN 2 (2 OF 2)

AXIAL STRAIN	AREA (in ²)	AX LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.115	7.652	240.500	31.432	-3.500	6.500	22.216	15.716
0.118	7.676	242.600	31.604	-3.700	6.700	22.502	15.802
0.121	7.701	250.300	32.503	-3.800	6.800	23.051	16.251
0.124	7.726	243.500	31.518	-4.000	7.000	22.759	15.759
0.127	7.749	261.000	33.680	-4.100	7.100	23.940	16.840
0.129	7.775	256.600	33.005	-4.200	7.200	23.702	16.502
0.132	7.798	256.300	32.865	-4.300	7.300	23.733	16.433
0.135	7.824	258.900	33.090	-4.400	7.400	23.945	16.545
0.138	7.848	268.700	34.237	-4.500	7.500	24.619	17.119
0.140	7.874	268.200	34.061	-4.600	7.600	24.631	17.031
0.143	7.899	278.000	35.196	-4.700	7.700	25.298	17.598
0.146	7.925	283.300	35.749	-4.900	7.900	25.774	17.874
0.149	7.951	295.200	37.127	-5.000	8.000	26.563	18.563
0.152	7.978	288.900	36.213	-5.100	8.100	26.207	18.107
0.154	8.003	290.300	36.275	-5.200	8.200	26.337	18.137
0.157	8.030	296.800	36.963	-5.200	8.200	26.681	18.481
0.160	8.057	295.200	36.640	-5.300	8.300	26.620	18.320
0.163	8.082	303.800	37.587	-5.500	8.500	27.294	18.794
0.165	8.110	288.700	35.598	-5.500	8.500	26.299	17.799
0.168	8.136	291.500	35.829	-5.600	8.600	26.514	17.914
0.171	8.162	300.800	36.853	-5.700	8.700	27.127	18.427
0.174	8.190	301.500	36.813	-5.800	8.800	27.206	18.406
0.176	8.215	314.700	38.308	-5.800	8.800	27.954	19.154
0.179	8.245	317.300	38.484	-6.000	9.000	28.242	19.242
0.182	8.273	315.700	38.158	-6.100	9.100	28.179	19.079
0.185	8.304	317.500	38.235	-6.200	9.200	28.317	19.117
0.188	8.331	315.400	37.858	-6.400	9.400	28.329	18.929
0.190	8.360	319.800	38.252	-6.500	9.500	28.626	19.126
0.193	8.391	314.000	37.419	-6.600	9.600	28.310	18.710
0.196	8.419	316.800	37.628	-6.600	9.600	28.414	18.814
0.199	8.447	328.900	38.936	-6.700	9.700	29.168	19.468
0.201	8.475	332.200	39.195	-6.700	9.700	29.298	19.598



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ENGINEER	J Wall	DEPTH	

SHEAR STAGE FOR SPECIMEN 3 (1 OF 2)

AXIAL STRAIN	AREA (in ²)	AXI LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.000	6.778	0.000	0.000	0.000	8.000	8.000	0.000
0.003	6.797	24.900	3.663	0.100	7.900	9.732	1.832
0.006	6.816	54.400	7.982	0.400	7.600	11.591	3.991
0.008	6.834	74.400	10.887	0.600	7.400	12.843	5.443
0.011	6.852	89.300	13.032	0.700	7.300	13.816	6.516
0.014	6.871	104.200	15.165	0.800	7.200	14.783	7.583
0.016	6.891	112.800	16.370	0.900	7.100	15.285	8.185
0.019	6.910	120.700	17.469	1.000	7.000	15.734	8.734
0.022	6.928	131.400	18.966	1.100	6.900	16.383	9.483
0.024	6.947	136.100	19.590	1.100	6.900	16.695	9.795
0.027	6.968	140.200	20.122	1.100	6.900	16.961	10.061
0.030	6.988	149.300	21.366	1.100	6.900	17.583	10.683
0.033	7.007	155.600	22.206	1.100	6.900	18.003	11.103
0.036	7.028	164.400	23.393	1.100	6.900	18.597	11.697
0.038	7.047	172.800	24.520	1.000	7.000	19.260	12.260
0.041	7.068	177.500	25.113	1.000	7.000	19.557	12.557
0.044	7.089	177.900	25.095	0.900	7.100	19.648	12.548
0.046	7.108	184.900	26.015	0.900	7.100	20.107	13.007
0.049	7.127	190.700	26.756	0.800	7.200	20.578	13.378
0.052	7.149	200.500	28.047	0.800	7.200	21.223	14.023
0.055	7.169	199.800	27.870	0.700	7.300	21.235	13.935
0.058	7.192	204.900	28.491	0.600	7.400	21.645	14.245
0.060	7.213	204.200	28.308	0.500	7.500	21.654	14.154
0.063	7.235	217.200	30.020	0.400	7.600	22.610	15.010
0.066	7.256	222.600	30.678	0.300	7.700	23.039	15.339
0.069	7.277	231.400	31.800	0.200	7.800	23.700	15.900
0.072	7.300	229.800	31.479	0.200	7.800	23.539	15.739
0.074	7.321	236.800	32.344	0.100	7.900	24.072	16.172
0.077	7.342	237.900	32.401	-0.100	8.100	24.300	16.200
0.080	7.364	248.000	33.679	-0.200	8.200	25.039	16.839
0.082	7.385	251.000	33.988	-0.300	8.300	25.294	16.994
0.085	7.408	246.300	33.248	-0.400	8.400	25.024	16.624
0.088	7.430	243.500	32.775	-0.500	8.500	24.887	16.387
0.091	7.454	248.900	33.391	-0.600	8.600	25.296	16.696
0.093	7.476	252.800	33.815	-0.600	8.600	25.507	16.907
0.096	7.498	269.100	35.889	-0.700	8.700	26.645	17.945
0.099	7.522	270.700	35.990	-0.800	8.800	26.795	17.995
0.102	7.545	269.800	35.757	-0.800	8.800	26.679	17.879
0.104	7.568	267.500	35.347	-0.900	8.900	26.574	17.674
0.107	7.590	275.200	36.256	-0.900	8.900	27.028	18.128
0.110	7.615	281.500	36.969	-1.000	9.000	27.484	18.484
0.113	7.637	294.500	38.560	-1.000	9.000	28.280	19.280



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CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TEST FOR COHESIVE SOILS

D - 4764

PROJECT INFORMATION

SAMPLE INFORMATION

NAME	Carolina Stalite Company	DESCRIPTION	5/16 Aggregate
NUMBER	13340-A	BORING	Bulk
DATE	Monday, August 08, 2005	NUMBER	
ENGINEER	J Wall	DEPTH	

SHEAR STAGE FOR SPECIMEN 3 (2 OF 2)

AXIAL STRAIN	AREA (in ²)	AX LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.115	7.662	299.800	39.129	-1.100	9.100	28.664	19.564
0.118	7.685	292.400	38.048	-1.200	9.200	28.224	19.024
0.121	7.710	292.900	37.990	-1.300	9.300	28.295	18.995
0.124	7.735	295.600	38.217	-1.400	9.400	28.509	19.109
0.127	7.760	290.800	37.475	-1.500	9.500	28.237	18.737
0.129	7.785	294.700	37.854	-1.600	9.600	28.527	18.927
0.132	7.811	297.000	38.026	-1.600	9.600	28.613	19.013
0.135	7.836	307.300	39.216	-1.600	9.600	29.208	19.608
0.138	7.860	302.400	38.472	-1.800	9.800	29.036	19.236
0.141	7.886	297.500	37.724	-1.800	9.800	28.662	18.862
0.143	7.911	296.300	37.455	-1.900	9.900	28.628	18.728
0.146	7.937	304.700	38.390	-2.000	10.000	29.195	19.195
0.149	7.962	298.200	37.453	-2.100	10.100	28.827	18.727
0.151	7.987	299.100	37.449	-2.200	10.200	28.924	18.724
0.154	8.014	291.900	36.425	-2.300	10.300	28.513	18.213
0.157	8.041	289.100	35.955	-2.300	10.300	28.278	17.978
0.160	8.069	285.600	35.393	-2.200	10.200	27.897	17.697
0.163	8.097	287.500	35.509	-2.100	10.100	27.854	17.754
0.166	8.123	281.700	34.681	-2.000	10.000	27.341	17.341
0.168	8.150	277.000	33.987	-1.900	9.900	26.893	16.993
0.171	8.176	269.400	32.949	-1.800	9.800	26.274	16.474
0.174	8.206	249.800	30.441	-1.600	9.600	24.820	15.220
0.177	8.233	258.900	31.448	-1.600	9.600	25.324	15.724
0.179	8.259	259.100	31.370	-1.500	9.500	25.185	15.685
0.182	8.286	254.700	30.737	-1.300	9.300	24.669	15.369
0.185	8.317	247.700	29.783	-1.200	9.200	24.091	14.891
0.188	8.344	248.200	29.745	-1.000	9.000	23.873	14.873
0.191	8.375	244.900	29.242	-0.800	8.800	23.421	14.621
0.193	8.403	248.000	29.514	-0.500	8.500	23.257	14.757
0.196	8.432	239.300	28.379	-0.100	8.100	22.289	14.189
0.199	8.462	222.600	26.305	0.600	7.400	20.553	13.153
0.202	8.492	185.100	21.796	1.900	6.100	16.998	10.898



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PROJECT INFORMATION

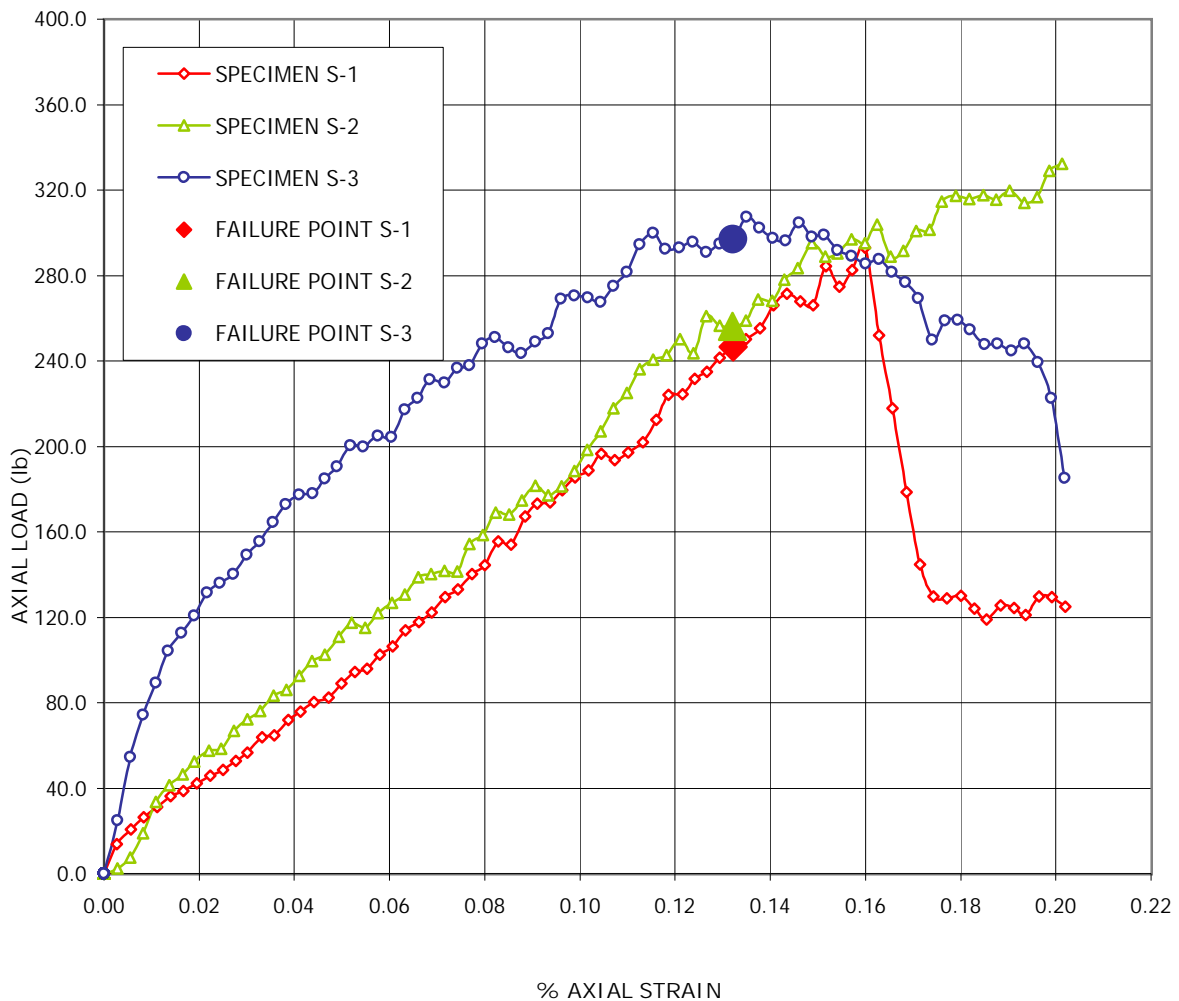
SAMPLE INFORMATION

NAME	Carolina Stalite Company	DESCRIPTION	5/16 Aggregate
NUMBER	13340-A	BORING	Bulk
DATE	Monday, August 08, 2005	NUMBER	
ENGINEER	J Wall	DEPTH	

SHEAR DATA AND FAILURE POINTS

SPECIMEN S-1 (9.5' - 10')							
AXIAL STRAIN	AREA (in ²)	AX LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.13	7.75	246.60	31.80	-4.40	5.40	21.30	15.90
SPECIMEN S-2 (8.5' - 9')							
AXIAL STRAIN	AREA (in ²)	AX LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.13	7.80	256.30	32.87	-4.30	7.30	23.73	16.43
SPECIMEN S-3 (9' - 9.5')							
AXIAL STRAIN	AREA (in ²)	AX LOAD (lb)	•1 - •3 (PSI)	DELTA u (PSI)	•'3 (PSI)	p' (PSI)	q (PSI)
0.13	7.81	297.00	38.03	-1.60	9.60	28.61	19.01

DEVIATOR STRESS vs % AXIAL STRAIN





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PROJECT INFORMATION		SAMPLE INFORMATION	
NAME	Carolina Stalite Company	DESCRIPTION	5/16 Aggregate
NUMBER	13340-A	BORING	Bulk
DATE	Monday, August 08, 2005	NUMBER	
ENGINEER	J Wall	DEPTH	

DIAGRAM p' vs q

FAILURE ENVELOPE VALUES

σ_c	σ'_c	a (PSI)	C (PSI)
33.60	41.64	0.000	0.000

