

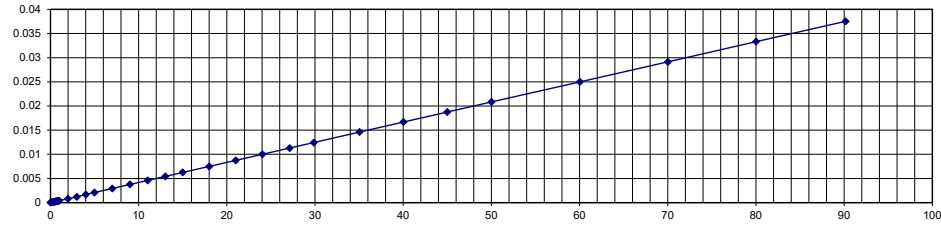
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	1
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60

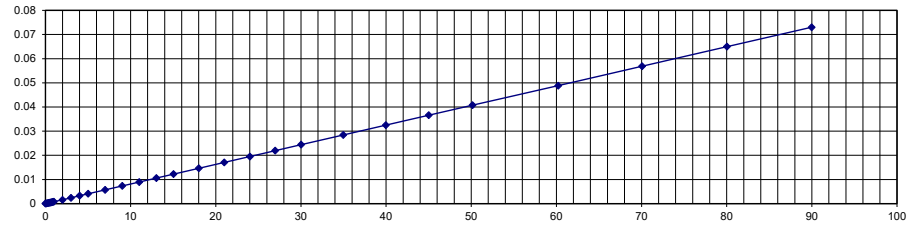


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.002115711	0.002115711	2.96151E-05	0.000279572	-0.00211512	101.4001611	71.4403249	97.142387
0.1A	0.100013949	0.100013949	5.69847E-05	0.000411965	-0.002074509	102.7469008	1755.101837	29.79592653
0.2A	0.201954381	0.201954381	9.89805E-05	0.000359756	-0.002043057	104.8447286	2040.344106	18.38623575
0.3A	0.299990561	0.299990561	0.00013425	0.000339621	-0.002013828	106.6663934	2234.571589	10.61713643
0.4A	0.400481494	0.400481494	0.000168379	0.000386409	-0.001960961	108.5865281	2378.459775	4.861608996
0.5A	0.499914001	0.499914001	0.0002068	0.000459349	-0.001886076	110.9645698	2417.377829	3.30488683
0.6A	0.60049578	0.60049578	0.000253002	0.000451923	-0.001844333	113.7178199	2373.479764	5.060809433
0.7A	0.700651713	0.700651713	0.000298265	0.000342216	-0.001875937	115.899529	2349.090658	6.036373685
0.8A	0.801108288	0.801108288	0.000332643	0.000374112	-0.001816007	118.3172729	2408.312769	3.66748925
0.9A	0.900470341	0.900470341	0.000369815	0.000477565	-0.001685678	121.9386795	2434.917984	2.603280651
1A	1.00104851	1.00104851	0.000417848	0.000398503	-0.00171679	124.3389112	2395.723574	4.171057038
2A	1.99971213	1.99971213	0.000815818	0.00039147	-0.001332883	161.2070331	2451.173258	1.953069693
3A	3.00011819	3.00011819	0.001207448	0.000474199	-0.000693057	274.220485	2484.677959	0.612881637
4A	4.00849968	0.040084997	0.001685621	0.000424073	-0.000415814	505.3791446	2378.054743	4.877810275
5A	4.99924782	0.049992478	0.002105771	0.000409488	-6.85766E-05	3170.684524	2374.069951	5.037201978
7A	7.00181838	0.035009092	0.002925801	0.000419272	0.000819955	-256.824519	2393.128991	4.274840378
9A	9.0131692	0.045065846	0.003769104	0.000415551	0.001629718	-131.2733497	2391.32962	4.34681519
11A	11.03411285	0.022068226	0.004608908	0.000412143	0.002431921	-89.51716821	2394.083844	4.236646254
13A	13.0277147	0.026055429	0.005430557	0.000414669	0.00328648	-65.23931972	2398.964592	4.041416331
15A	14.99745545	0.029994911	0.006247348	0.000419555	0.00417654	-49.58189855	2400.611503	3.975539867
18A	18.0101188	0.036020238	0.007511325	0.000412206	0.005308164	-41.5051411	2397.728699	4.090852044
21A	21.00929105	0.042018582	0.008747601	0.000418467	0.006675975	-31.03105144	2401.720372	3.931185108
24A	24.0269575	0.048053915	0.010010393	0.000417828	0.007923419	-26.33931155	2400.201125	3.991955001
27A	27.1167554	0.027116755	0.011301397	0.000415583	0.00915355	-23.46463636	2399.416274	4.023349043
30A	29.8539927	0.029853993	0.012438946	0.00041887	0.010389219	-19.72936673	2400.042008	3.998319665
35A	35.0489742	0.035048974	0.014614966	0.00041661	0.01248603	-17.05053724	2398.156446	4.073742164
40A	40.0371405	0.040037141	0.016693084	0.000414735	0.014489111	-15.21123401	2398.426828	4.062926898
45A	44.9980441	0.044998044	0.018750547	0.000418644	0.016722452	-12.1279725	2399.825713	4.006971487
50A	50.0149665	0.050014967	0.020850851	0.000413438	0.018562392	-12.32847058	2398.701403	4.051943893
60A	60.0404648	0.030020232	0.024995777	0.000415955	0.022858408	-9.350469254	2402.02439	3.9190244
70A	70.0094628	0.035004731	0.029142429	0.000417574	0.027118387	-7.463726455	2402.320781	3.907168754
80A	80.0212976	0.040010649	0.033323106	0.000414792	0.03107648	-7.229344309	2401.375711	3.944971564
90A	90.1649268	0.045082463	0.037530602	0.000416244	0.035414891	-5.974071844	2402.437531	3.902498766

**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb



**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	2
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60

Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001700007	0.001700007	2.32733E-05	0.000688822	-0.001698836	101.3699543	146.0909033	94.15636387
0.1A	0.099827181	0.099827181	9.08654E-05	0.00081512	-0.001618636	105.6137056	2197.252786	12.10988855
0.2A	0.199709102	0.199709102	0.000172281	0.000717809	-0.001556654	111.0674044	2318.408869	7.263645259
0.3A	0.300131245	0.300131245	0.000244365	0.000839915	-0.001447922	116.8769526	2456.416226	1.743350969
0.4A	0.400432035	0.400432035	0.000328609	0.00086382	-0.001354106	124.2676218	2437.131607	2.514735714
0.5A	0.500781566	0.500781566	0.000415293	0.000688772	-0.001355083	130.6470701	2411.701337	3.531946513
0.6A	0.601005466	0.601005466	0.000484325	0.00083083	-0.001200673	140.337744	2481.829425	0.726822988
0.7A	0.70018459	0.70018459	0.000566726	0.000868723	-0.00109174	151.9102986	2470.982861	1.160685577
0.8A	0.801473343	0.801473343	0.000654717	0.000868371	-0.001149899	156.9369442	2448.302841	2.067886355
0.9A	0.90011215	0.90011215	0.00072242	0.000845849	-0.000938648	176.9638955	2491.934965	0.322601419
1A	1.00052506	1.00052506	0.000807354	0.000797766	-0.000901822	189.5248009	2478.527592	0.858896307
2A	2.00076607	2.00076607	0.001605313	0.000798148	-0.0001031	1657.043045	2492.680859	0.292765647
3A	3.00184493	3.00184493	0.002404321	0.000863323	0.000891554	-169.677684	2497.041259	0.118349649
4A	4.0135625	0.040135625	0.00327776	0.000810007	0.001551008	-111.3309664	2448.966583	2.041336692
5A	5.01366582	0.050136658	0.004087851	0.000811373	0.002367944	-72.63290303	2452.959121	1.88163517
7A	7.00763968	0.035038198	0.005705707	0.000810023	0.003976343	-43.49133395	2456.361588	1.745536479
9A	9.0314664	0.045157332	0.007345053	0.000807875	0.005596289	-31.24864331	2459.197011	1.632119567
11A	11.0081135	0.022016227	0.008941937	0.000818209	0.007306935	-22.37603668	2462.131775	1.514728983
13A	13.0204124	0.026040825	0.010588419	0.000805164	0.008783561	-20.54813111	2459.368631	1.62525477
15A	15.0500404	0.030100081	0.012222602	0.000812234	0.010524154	-16.13857074	2462.657322	1.493707126
18A	18.01029645	0.036020593	0.014627024	0.000816185	0.012999721	-12.51798787	2462.605698	1.495772062
21A	20.9982072	0.041996414	0.017065711	0.000810494	0.015318922	-11.4028222	2460.865205	1.565391796
24A	24.014509	0.048029018	0.019510407	0.000816039	0.017896762	-9.016405233	2461.712817	1.531487304
27A	26.9818849	0.026981885	0.0219319	0.000815308	0.020298545	-8.046660694	2460.515017	1.579399308
30A	30.0201189	0.030020119	0.024408997	0.000810755	0.022638958	-7.818555701	2459.758468	1.609661287
35A	34.9687877	0.034968788	0.028421156	0.000816255	0.02684344	-5.877470862	2460.757609	1.569695628
40A	39.978854	0.039978854	0.032510647	0.000813156	0.03080904	-5.523078437	2459.431429	1.622742831
45A	45.0178327	0.045017833	0.036608123	0.000807974	0.034673212	-5.58042227	2459.444982	1.622200716
50A	50.1619119	0.050161912	0.040764403	0.000804455	0.038652969	-5.462541117	2461.064444	1.557422229
60A	60.21089	0.030105445	0.048848349	0.0008151	0.04737789	-3.103682491	2465.216987	1.39132051
70A	70.064933	0.035032467	0.05688038	0.000812775	0.055247045	-2.956419375	2463.588798	1.456448086
80A	80.03603	0.040018015	0.064984642	0.000808755	0.063029537	-3.101885965	2463.229092	1.470836301
90A	89.9760692	0.044988035	0.073023699	0.00081159	0.071323692	-2.383509431	2464.297777	1.428088906

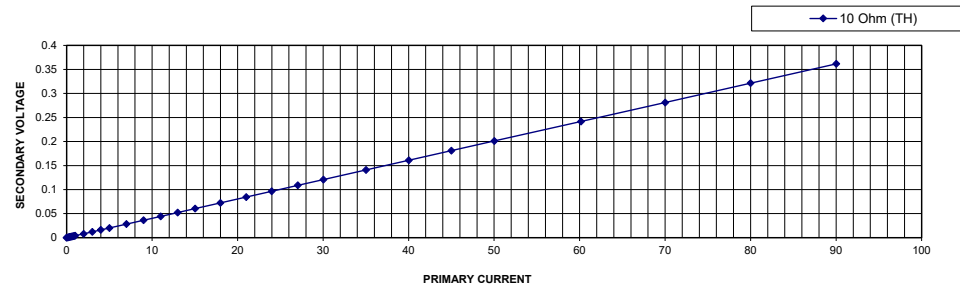
# CURRENT TRANSFORMER CHARACTERISTICS TEST

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

### TEST SETUP

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	10
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001688599	0.001688599	2.6316E-05	0.003948242	-0.001681932	101.5646303	641.662041	74.33351836
0.1A	0.100050591	0.100050591	0.000414673	0.003946021	-0.001293797	132.0508604	2412.758723	3.489651081
0.2A	0.199634102	0.199634102	0.000807632	0.003988185	-0.000892421	190.498966	2471.846038	1.126158483
0.3A	0.301100132	0.301100132	0.001212297	0.004099805	-0.000454147	366.9394458	2483.716093	0.651356281
0.4A	0.400252267	0.400252267	0.001618801	0.003907081	-0.00012478	1397.320887	2472.522535	1.099098581
0.5A	0.500278596	0.500278596	0.002009612	0.004057623	0.000341344	-488.7358587	2489.428414	0.422863455
0.6A	0.600155196	0.600155196	0.002414874	0.004069873	0.000753957	-220.2934706	2485.24442	0.590223192
0.7A	0.701066434	0.701066434	0.00282557	0.00395654	0.001085199	-160.3735235	2481.150639	0.753974435
0.8A	0.801233355	0.801233355	0.003221884	0.003933303	0.001462895	-120.2403117	2486.847153	0.526113881
0.9A	0.900537879	0.900537879	0.003612479	0.004077671	0.001983498	-82.12664309	2492.852938	0.285882468
1A	1.00152309	1.00152309	0.004024263	0.004005619	0.002323121	-73.22658739	2488.71158	0.451536797
2A	1.99824563	1.99824563	0.008016754	0.00399715	0.00629869	-27.27653467	2492.58699	0.296520393
3A	3.00295543	3.00295543	0.01203273	0.004079823	0.010562927	-13.91472785	2495.655977	0.173760902
4A	4.00332583	0.040033258	0.016114064	0.004018661	0.01439941	-11.90780575	2484.367618	0.625295278
5A	5.01916382	0.050191638	0.020196372	0.004015753	0.018467122	-9.363936807	2485.1809	0.592763985
7A	7.00303882	0.035015194	0.028163124	0.004022068	0.0264781	-6.363838868	2486.598759	0.536049631
9A	9.00572116	0.045028606	0.036218048	0.00398496	0.034198838	-5.904323928	2486.52857	0.538857199
11A	11.01125995	0.02202252	0.04421004	0.004047023	0.042874226	-3.115655687	2490.669551	0.373217942
13A	12.9979098	0.02599582	0.052250058	0.004038807	0.05080745	-2.839363481	2487.635492	0.494580315
15A	15.0380253	0.030076051	0.06048969	0.004006829	0.058566202	-3.284297501	2486.04766	0.558093616
18A	18.00245435	0.036004909	0.072367652	0.004035011	0.070951502	-1.995940131	2487.638327	0.494466924
21A	21.01145825	0.042022917	0.084509015	0.004009399	0.082554718	-2.36727546	2486.297846	0.548086141
24A	23.99771255	0.047995425	0.0964821	0.004052121	0.095553036	-0.97230118	2487.270968	0.509161286
27A	27.0475026	0.027047503	0.108840218	0.004012596	0.106842104	-1.870155941	2485.065089	0.597396451
30A	30.0465974	0.030046597	0.120874374	0.004032699	0.119480281	-1.166797849	2485.770673	0.569173082
35A	35.0159506	0.035015951	0.140914279	0.004021522	0.139128805	-1.283324114	2484.911455	0.603541817
40A	40.0298746	0.040029875	0.161077883	0.004016526	0.15909243	-1.247987383	2485.125447	0.594982118
45A	45.017343	0.045017343	0.181110179	0.004023528	0.179439939	-0.930807425	2485.632958	0.574681669
50A	50.0235021	0.050023502	0.2012526	0.00399203	0.198006713	-1.639281104	2485.607744	0.575690252
60A	60.1631676	0.030081584	0.241730447	0.004007644	0.239423954	-0.963350933	2488.853529	0.445858854
70A	70.0164674	0.035008234	0.281218964	0.004025475	0.280160932	-0.377651406	2489.749141	0.410034367
80A	80.0043136	0.040002157	0.321424788	0.004009979	0.319126987	-0.720027147	2489.052388	0.437904497
90A	90.0264192	0.04501321	0.361613217	0.004016746	0.359924618	-0.469153382	2489.577675	0.416893003

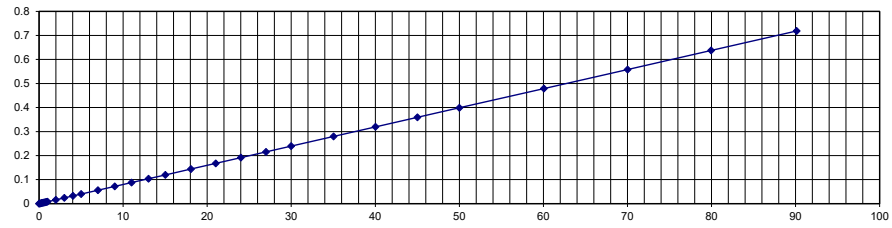
# CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	20
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001757465	0.001757465	3.04272E-05	0.00796803	-0.001743461	101.7452171	1155.193832	53.79224672
0.1A	0.100650317	0.100650317	0.000818408	0.00785121	-0.000967238	184.612953	2459.659815	1.613607392
0.2A	0.200482034	0.200482034	0.001602208	0.00802752	-0.000148091	1181.908343	2502.571595	-0.102863786
0.3A	0.29994473	0.29994473	0.002400647	0.00802491	0.000649565	-269.5775943	2498.865785	0.045368603
0.4A	0.400758896	0.400758896	0.003209672	0.007901871	0.001409281	-127.7524947	2497.195615	0.1121754
0.5A	0.500502078	0.500502078	0.003997829	0.007901173	0.002197089	-81.96028385	2503.869127	-0.154765084
0.6A	0.60060465	0.60060465	0.004788757	0.008037842	0.003070101	-55.98044556	2508.394704	-0.335788172
0.7A	0.700046345	0.700046345	0.005588054	0.00801019	0.00385004	-45.14276287	2505.510407	-0.220416275
0.8A	0.800749802	0.800749802	0.006394708	0.007872142	0.004546151	-40.66200578	2504.414133	-0.176656322
0.9A	0.899770435	0.899770435	0.007174212	0.007946277	0.005392361	-33.04399169	2508.346373	-0.333854923
1A	1.00035769	1.00035769	0.007973506	0.007975089	0.006220478	-28.18157693	2509.204009	-0.36816037
2A	2.00284945	2.00284945	0.015968468	0.007952701	0.014170598	-12.687324	2508.505497	-0.34021987
3A	3.00019383	3.00019383	0.023900049	0.008034935	0.022348898	-6.940614615	2510.617284	-0.424691343
4A	4.02907844	0.040290784	0.03216707	0.007980957	0.030398437	-5.818172665	2505.095057	-0.203802272
5A	5.01272157	0.050127216	0.040017484	0.007965653	0.038172137	-4.83427599	2505.265752	-0.210630085
7A	7.000135	0.035000675	0.05584853	0.007999617	0.054240935	-2.963804386	2506.828743	-0.273149715
9A	9.00831922	0.045041596	0.071913235	0.007940184	0.06977025	-3.071487993	2505.330005	-0.2132002
11A	11.0065724	0.022013145	0.087779733	0.007988501	0.086168553	-1.869800991	2507.770763	-0.310830519
13A	13.0180556	0.026036111	0.103848469	0.007778322	0.099501164	-4.369099223	2507.125184	-0.285007379
15A	15.02103965	0.030042079	0.119428324	0.008099058	0.119898806	0.392398994	2515.49032	-0.619612815
18A	18.0757695	0.036151539	0.144168758	0.007982741	0.14253673	-1.144987344	2507.584826	-0.303393056
21A	21.01582475	0.04203165	0.167638459	0.007964535	0.165623815	-1.216397306	2507.279639	-0.291185569
24A	24.0056613	0.048011323	0.191451118	0.008015041	0.190648902	-0.420782107	2507.7588	-0.310352014
27A	26.9947572	0.026994757	0.215408845	0.008009263	0.214450652	-0.446812908	2506.374072	-0.254962882
30A	29.9996909	0.029999691	0.23947615	0.007983026	0.237730862	-0.734144328	2505.442893	-0.21771571
35A	35.0303742	0.035030374	0.279636228	0.007966056	0.277296447	-0.843783316	2505.424598	-0.216983902
40A	40.0301856	0.040030186	0.319465004	0.007998307	0.318416268	-0.329360031	2506.076415	-0.243056607
45A	45.0098375	0.045009838	0.359293791	0.007968352	0.356896756	-0.671632572	2505.461471	-0.218458827
50A	49.997202	0.049997202	0.399034866	0.007922723	0.394356511	-1.18632622	2505.906439	-0.23625755
60A	60.0649338	0.030032467	0.478798715	0.007965618	0.476696851	-0.440922573	2508.984754	-0.359390146
70A	70.0229528	0.035011476	0.55812049	0.007991284	0.557815841	-0.054614538	2509.241429	-0.369657168
80A	79.95711	0.039978555	0.637507162	0.007975664	0.635953596	-0.244289255	2508.430172	-0.337206878
90A	90.1282758	0.045064138	0.718628965	0.007973402	0.7168715	-0.245157536	2508.339635	-0.333585413

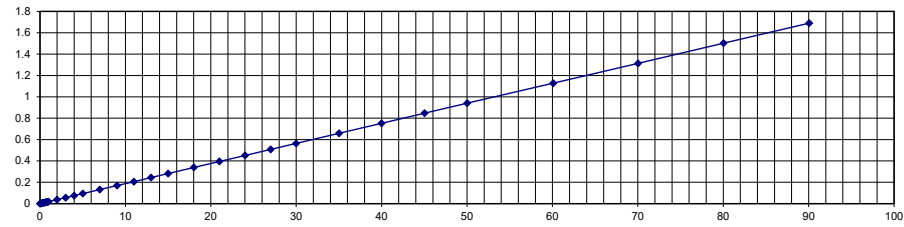
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	47
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001751241	0.001751241	4.23409E-05	0.018676707	-0.001718534	102.4637831	1943.941919	22.24232325
0.1A	0.10032979	0.10032979	0.001883464	0.018494741	0.000104333	-1705.250447	2503.632181	-0.145287224
0.2A	0.200052348	0.200052348	0.003727807	0.019005174	0.002050789	-81.7742878	2522.250104	-0.890004143
0.3A	0.299745884	0.299745884	0.005622499	0.018793831	0.003882133	-44.8301791	2505.657243	-0.226289735
0.4A	0.400949508	0.400949508	0.007524503	0.018731457	0.005759127	-30.65353181	2504.434668	-0.177386731
0.5A	0.500853908	0.500853908	0.009395858	0.01888322	0.007706493	-21.92131666	2505.373448	-0.214937901
0.6A	0.600611758	0.600611758	0.011279608	0.018715706	0.009489632	-18.86243117	2502.636051	-0.105442058
0.7A	0.700135558	0.700135558	0.013142266	0.018725829	0.011359378	-15.69529838	2503.858294	-0.154331762
0.8A	0.80093185	0.80093185	0.01502976	0.018844324	0.013341779	-12.65184683	2504.617319	-0.184692771
0.9A	0.900114876	0.900114876	0.016898797	0.018812248	0.015181944	-11.30852166	2503.456262	-0.138250485
1A	1.00212204	1.00212204	0.018817781	0.018774128	0.017062726	-10.28589927	2502.937813	-0.117512537
2A	2.00042632	2.00042632	0.037560073	0.018799534	0.035855842	-4.753007945	2503.190996	-0.127639836
3A	3.00036747	3.00036747	0.056358501	0.018902007	0.054961727	-2.541357175	2502.147295	-0.085891809
4A	3.99946131	0.039994613	0.07524338	0.018775799	0.07334184	-2.592708489	2498.22218	0.071112797
5A	5.00846879	0.050084688	0.094188302	0.01879143	0.092365049	-1.973963898	2499.227915	0.030883398
7A	7.00798354	0.035039918	0.131762043	0.018818364	0.130127541	-1.256077059	2499.773219	0.009071238
9A	9.02369872	0.045118494	0.169694504	0.018070793	0.161314154	-5.195049449	2499.278585	0.0288566
11A	11.0044179	0.022008836	0.205487671	0.019461258	0.212408578	3.258299046	2516.976511	-0.679060458
13A	13.0057961	0.026011592	0.244437009	0.018761781	0.242260654	-0.898352849	2500.735953	-0.029438128
15A	15.01845495	0.03003691	0.282198073	0.018837548	0.281159629	-0.369343248	2501.318932	-0.052757292
18A	18.0175988	0.036035198	0.33869459	0.018770095	0.336440798	-0.669892721	2500.2677	-0.010708007
21A	21.02041655	0.042040833	0.395057764	0.018756652	0.392521404	-0.646171229	2500.797777	-0.031911065
24A	24.01559	0.04803118	0.451237191	0.018948926	0.453318404	0.459106262	2501.417774	-0.056710973
27A	27.0090528	0.027009053	0.507960097	0.018809367	0.506271944	-0.333447911	2499.065358	0.037385685
30A	29.9958521	0.029995852	0.564139901	0.018835766	0.563243623	-0.159127933	2499.034453	0.038621895
35A	35.0274653	0.035027465	0.658914192	0.018792967	0.656518769	-0.364867333	2498.49053	0.060378781
40A	39.9943631	0.039994363	0.75225694	0.01885028	0.75215369	-0.013727298	2498.793917	0.04824332
45A	45.0291711	0.045029171	0.847164479	0.018747281	0.842423278	-0.562805034	2498.181987	0.072720509
50A	50.0155188	0.050015519	0.94064494	0.018612048	0.929140017	-1.23823351	2499.061318	0.037547277
60A	60.0895792	0.03004479	1.12814384	0.018677202	1.120553988	-0.677330317	2503.413237	-0.136529484
70A	70.02235	0.035011175	1.31366021	0.018864904	1.319213673	0.420967673	2505.252443	-0.210097709
80A	80.0475624	0.040023781	1.50278488	0.018683776	1.493839478	-0.59881947	2503.508974	-0.140358953
90A	90.0658414	0.045032921	1.68996416	0.018763653	1.688212919	-0.103733417	2504.842793	-0.193711701

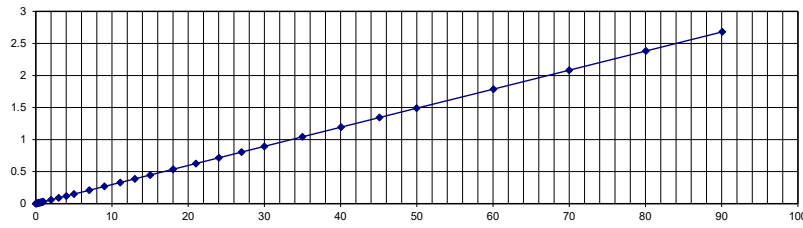
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	75
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001719835	0.001719835	5.35783E-05	0.029865355	-0.001668472	103.2112225	2407.458694	3.701652232
0.1A	0.100384201	0.100384201	0.003000225	0.029888393	0.001280487	-134.3034128	2509.417128	-0.376685128
0.2A	0.200269801	0.200269801	0.005985645	0.029709832	0.004230147	-41.49969143	2509.376342	-0.375053671
0.3A	0.300503621	0.300503621	0.008963575	0.029748269	0.007219627	-24.15564762	2514.373166	-0.574926656
0.4A	0.40076296	0.40076296	0.011946116	0.029871916	0.010251722	-16.52789882	2516.066393	-0.642655717
0.5A	0.500272716	0.500272716	0.014918664	0.029864485	0.013220551	-12.84448833	2515.001005	-0.600040211
0.6A	0.600811776	0.600811776	0.017921211	0.029731413	0.016143148	-11.01435268	2514.388339	-0.575533549
0.7A	0.700190242	0.700190242	0.020875873	0.029755492	0.01911467	-9.213881534	2515.548375	-0.621934999
0.8A	0.799872273	0.799872273	0.023841961	0.02975867	0.0220833	-7.963759802	2516.169747	-0.646789881
0.9A	0.900727431	0.900727431	0.026843276	0.029886634	0.025199876	-6.521462802	2516.628627	-0.665145076
1A	0.999868244	0.999868244	0.029806261	0.02980119	0.028077428	-6.157377537	2515.918293	-0.636731717
2A	2.00385729	2.00385729	0.05972633	0.029773624	0.057942258	-3.079052035	2516.298879	-0.651955178
3A	3.0019443	3.0019443	0.089442997	0.029850167	0.087888704	-1.768478369	2517.199002	-0.687960065
4A	4.0198991	0.040198991	0.119829118	0.029812586	0.118123754	-1.443709766	2516.019792	-0.640791665
5A	5.0093631	0.050093631	0.149327599	0.029801572	0.14756706	-1.193043096	2515.959776	-0.638391032
7A	7.02094862	0.035104743	0.20927601	0.029733024	0.207034198	-1.082822216	2516.156278	-0.64625114
9A	9.01689512	0.045084476	0.268621535	0.029735903	0.266405681	-0.831759259	2517.546235	-0.701849388
11A	11.08119125	0.022162383	0.330005244	0.029826405	0.328792267	-0.368918977	2518.412537	-0.736501478
13A	13.01650475	0.02603301	0.387728689	0.029708539	0.384981498	-0.713590402	2517.83756	-0.7135024
15A	15.0080633	0.030016127	0.446894983	0.029862624	0.44646032	-0.097357519	2518.723168	-0.748926734
18A	18.02136545	0.036042731	0.536880093	0.029722727	0.533924293	-0.553599037	2517.512619	-0.70050474
21A	21.03211495	0.04206423	0.626367779	0.029801459	0.62506788	-0.207961315	2518.342536	-0.733701454
24A	24.02598285	0.048051966	0.715589411	0.029987416	0.718757315	0.440747395	2518.132166	-0.725286655
27A	27.0083017	0.027008302	0.805021448	0.029809504	0.803384251	-0.203787586	2516.234359	-0.649374375
30A	29.995288	0.029995288	0.894062029	0.029892264	0.894907244	0.094447223	2516.208638	-0.648345508
35A	34.9903683	0.034990368	1.04337629	0.029707425	1.037753915	-0.541783096	2515.17851	-0.607140402
40A	40.0693709	0.040069371	1.19426038	0.029769498	1.191125205	-0.263211228	2516.371528	-0.654861128
45A	45.0998431	0.045099843	1.34401501	0.029798546	1.342189901	-0.135979903	2516.704209	-0.668168356
50A	49.9829314	0.049982931	1.48952394	0.029543563	1.474954071	-0.987818475	2516.723467	-0.668938695
60A	60.0549256	0.030027463	1.78708654	0.02975704	1.785336989	-0.097995556	2520.370066	-0.814802623
70A	69.993937	0.034996969	2.0828421	0.029752575	2.08078003	-0.099100822	2520.376017	-0.81504066
80A	80.0566176	0.040028309	2.38223276	0.029781353	2.382474574	0.010149718	2520.428071	-0.817122841
90A	90.0876752	0.045043838	2.68097123	0.029759578	2.679251395	-0.064190895	2520.196996	-0.807879837

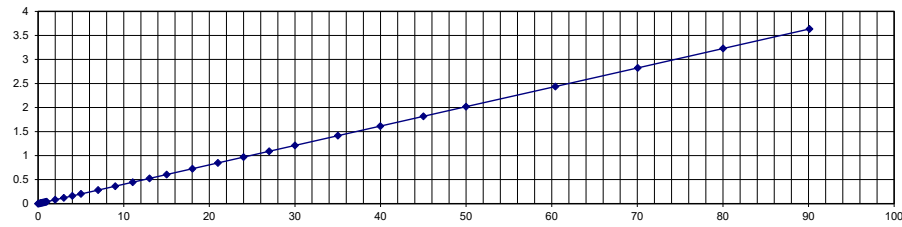
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	100
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001743871	0.001743871	6.8806E-05	0.040538976	-0.001673176	104.1123015	2534.473252	-1.378930082
0.1A	0.100120571	0.100120571	0.004056897	0.040221903	0.002283169	-77.687086	2467.910251	1.283589972
0.2A	0.200218356	0.200218356	0.00808302	0.040409514	0.006346856	-27.35471718	2477.024089	0.919036433
0.3A	0.300231444	0.300231444	0.0121245	0.04046245	0.010404229	-16.53434612	2476.237652	0.950493927
0.4A	0.401356667	0.401356667	0.016216275	0.040398442	0.014470313	-12.06581475	2475.023854	0.999045854
0.5A	0.500401951	0.500401951	0.02021755	0.040308284	0.018426473	-9.720126127	2475.087008	0.996519662
0.6A	0.600238728	0.600238728	0.024241799	0.040294106	0.022442212	-8.018759487	2476.048603	0.958055873
0.7A	0.700512446	0.700512446	0.028282239	0.040365995	0.026533011	-6.592645667	2476.863478	0.925460891
0.8A	0.800184352	0.800184352	0.032305595	0.040418143	0.030598095	-5.580411186	2476.921914	0.923123452
0.9A	0.89952035	0.89952035	0.036320571	0.040366707	0.034566804	-5.073559947	2476.613997	0.935440134
1A	1.00148759	1.00148759	0.040436653	0.040375051	0.038691242	-4.511126019	2476.682708	0.932691687
2A	2.00137829	2.00137829	0.080807291	0.040346367	0.079004472	-2.281920776	2476.729832	0.930806723
3A	3.00391641	3.00391641	0.121256062	0.040418109	0.119668751	-1.326420943	2477.332977	0.906680938
4A	3.99954829	0.39995483	0.16149762	0.04032352	0.159531995	-1.232119823	2476.536985	0.93852058
5A	5.00338243	0.500033824	0.201975746	0.039819925	0.197490444	-2.271148715	2477.219433	0.911222677
7A	7.00414414	0.035020721	0.281645928	0.040868511	0.284505068	1.004952351	2486.861497	0.525540138
9A	9.0157023	0.045078512	0.363855314	0.040240758	0.361054826	-0.775640603	2477.8262	0.886952004
11A	11.04931885	0.022098638	0.445689586	0.040303169	0.443578691	-0.475878404	2479.151229	0.83395083
13A	13.0188824	0.026037765	0.525069238	0.040440004	0.524739782	-0.062784705	2479.460128	0.821594885
15A	15.0150429	0.030030086	0.605793976	0.040195814	0.601797996	-0.664006945	2478.572501	0.857099972
18A	18.0337856	0.036067571	0.727134795	0.040500815	0.728639138	0.206459204	2480.115891	0.795364359
21A	21.01498425	0.042029969	0.847875769	0.040424066	0.847767237	-0.01280211	2478.545209	0.858191644
24A	24.00518715	0.048010374	0.968751928	0.040490619	0.970241006	0.153475054	2477.949871	0.882005161
27A	26.9920003	0.026992	1.08968984	0.040355974	1.087544583	-0.197256889	2477.035144	0.91859423
30A	30.0035599	0.03000356	1.21122426	0.040377974	1.209739102	-0.122766832	2477.12673	0.914930816
35A	35.0219003	0.0350219	1.41385468	0.040315847	1.410193716	-0.259607149	2477.050916	0.917963365
40A	39.9877989	0.039987799	1.61405909	0.040365172	1.612370498	-0.104727314	2477.468089	0.901276421
45A	45.0109538	0.045010954	1.8168196	0.040388566	1.816184006	-0.034996141	2477.458621	0.901655178
50A	49.9969387	0.049996939	2.01819638	0.040155767	2.005921571	-0.611928683	2477.307917	0.907683325
60A	60.42491	0.030212455	2.43693957	0.040264283	2.431221829	-0.23517974	2479.540763	0.818369493
70A	70.0612556	0.035030628	2.82494012	0.040443129	2.831752544	0.240572727	2480.097015	0.796119388
80A	80.030952	0.040015476	3.22814584	0.040318809	3.225008789	-0.097272637	2479.161598	0.833536071
90A	90.1091682	0.045054584	3.634487513	0.04033427	3.632743642	-0.048004233	2479.281271	0.828749167

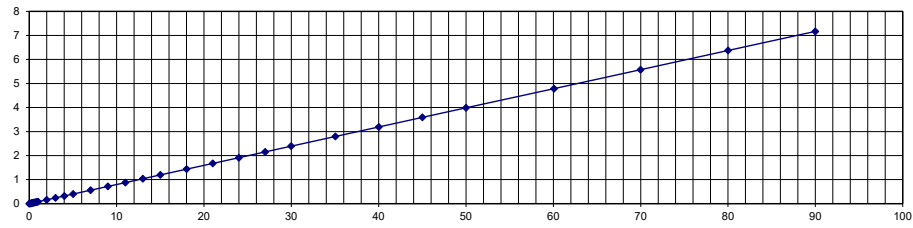
# CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	200
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001752459	0.001752459	2.78446E-05	0.081091428	-0.001610349	101.7291056	12587.40432	-403.4961728
0.1A	0.100134795	0.100134795	0.008005809	0.079675358	0.006225817	-28.59049739	2501.553506	-0.062140255
0.2A	0.201421119	0.201421119	0.016075833	0.079935182	0.014348175	-12.04095974	2505.887194	-0.235487767
0.3A	0.300711962	0.300711962	0.024012665	0.079844637	0.022257779	-7.884371431	2504.611365	-0.184454582
0.4A	0.403122784	0.403122784	0.032189619	0.079549131	0.030315608	-6.181670724	2504.675678	-0.187027126
0.5A	0.496414683	0.496414683	0.039610909	0.079803506	0.037863173	-4.615924483	2506.454392	-0.258175697
0.6A	0.60409069	0.60409069	0.048203832	0.079891703	0.046509375	-3.643257689	2506.40112	-0.25604479
0.7A	0.702385237	0.702385237	0.056056751	0.079946183	0.05440056	-3.044436732	2505.979135	-0.239165415
0.8A	0.80053376	0.80053376	0.06390335	0.079309307	0.061737319	-3.508464376	2505.451608	-0.21806431
0.9A	0.904436247	0.904436247	0.072143785	0.080228609	0.070809203	-1.884757455	2507.315778	-0.292631113
1A	1.00366984	1.00366984	0.080105158	0.079727055	0.078267181	-2.348336155	2505.880692	-0.235227675
2A	2.00145626	2.00145626	0.15965573	0.079662253	0.157688057	-1.247826211	2507.215068	-0.288602733
3A	3.00609672	3.00609672	0.239687653	0.07993522	0.238540543	-0.480886847	2508.345075	-0.33380301
4A	4.01039902	0.04010399	0.319966778	0.079615616	0.317537931	-0.764899717	2506.759636	-0.270385446
5A	5.01496538	0.050149654	0.399945948	0.079678548	0.397832703	-0.531189453	2507.821572	-0.312862877
7A	7.0154485	0.035077243	0.559341539	0.079767649	0.557853377	-0.266765857	2508.466835	-0.338673399
9A	9.00584994	0.04502925	0.718111183	0.078390899	0.704224216	-1.97195244	2508.2049	-0.328196003
11A	11.0147843	0.022029569	0.875593354	0.080964337	0.890052248	1.624499444	2515.958864	-0.638354548
13A	13.00929685	0.026018594	1.03707774	0.079803711	1.036437713	-0.061752595	2508.837351	-0.35349404
15A	15.00682525	0.030013651	1.19648792	0.079498458	1.191267006	-0.43826566	2508.479191	-0.339167653
18A	18.0177746	0.036035549	1.43585375	0.07968721	1.434033723	-0.126916582	2509.69496	-0.387798409
21A	21.01136455	0.042022729	1.67440458	0.079671816	1.672261115	-0.128177636	2509.711787	-0.388471465
24A	24.0024992	0.048004998	1.91271371	0.080160538	1.922300797	0.498729802	2509.784823	-0.391392918
27A	27.0154131	0.027015413	2.15423051	0.079930777	2.157610502	0.156654432	2508.126496	-0.325059828
30A	29.9841683	0.029984168	2.39152542	0.079770782	2.390108107	-0.059299105	2507.534986	-0.301399431
35A	35.0481259	0.035048126	2.79548128	0.079709177	2.791904829	-0.12810076	2507.484214	-0.299368558
40A	40.0133603	0.04001336	3.19125603	0.079832831	3.192627361	0.042953056	2507.687251	-0.307490026
45A	45.0209793	0.045020979	3.59102843	0.079724865	3.587539033	-0.097264352	2507.414251	-0.296570027
50A	50.0087907	0.050008791	3.98868102	0.07915623	3.956754866	-0.806877226	2507.53522	-0.30140881
60A	60.0866017	0.030043009	4.78635626	0.079630629	4.782934876	-0.071533148	2510.720629	-0.428825162
70A	69.9899596	0.03499498	5.57501344	0.079771655	5.581462465	0.115543643	2510.844516	-0.433780622
80A	80.0105946	0.040005297	6.37437608	0.079516405	6.360402402	-0.219698022	2510.381992	-0.415279671
90A	90.0013224	0.045000661	7.16880284	0.079652195	7.167050381	-0.024451605	2510.916381	-0.436655223



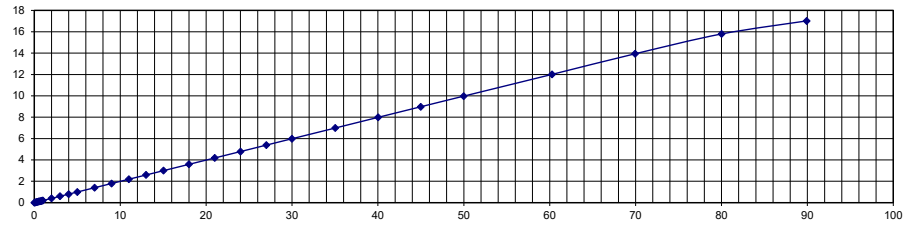
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	500
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001722456	0.001722456	4.32607E-05	0.202767807	-0.001373198	103.1503653	19907.84554	-698.3138216
0.1A	0.100809989	0.100809989	0.020135023	0.199355036	0.018374523	-9.581199704	2503.349301	-0.133972038
0.2A	0.199745576	0.199745576	0.03985833	0.199595184	0.038145799	-4.48943569	2505.694243	-0.227769703
0.3A	0.299100956	0.299100956	0.059689185	0.199694975	0.058006502	-2.90085343	2505.486999	-0.21947996
0.4A	0.401334296	0.401334296	0.08010467	0.199512806	0.078348876	-2.240994731	2505.061799	-0.202471967
0.5A	0.499984621	0.499984621	0.099786673	0.199208558	0.097878759	-1.94926207	2505.26752	-0.210700782
0.6A	0.599852128	0.599852128	0.119681135	0.199261215	0.117804807	-1.592742759	2506.042945	-0.241717795
0.7A	0.701479487	0.701479487	0.139931526	0.199313923	0.138092172	-1.331975525	2506.509816	-0.260392644
0.8A	0.800209765	0.800209765	0.159609845	0.199345609	0.157795847	-1.149585581	2506.768192	-0.270727661
0.9A	0.900661935	0.900661935	0.179634544	0.199083871	0.177584808	-1.154229357	2506.928553	-0.277142129
1A	1.00002673	1.00002673	0.199416472	0.199277225	0.197560096	-0.939651314	2507.382464	-0.295298575
2A	2.00031656	2.00031656	0.398751454	0.199113547	0.396567669	-0.550671376	2508.224785	-0.328991402
3A	2.99989588	2.99989588	0.597781238	0.199547847	0.596900309	-0.147584019	2509.192067	-0.367682667
4A	3.99212023	0.039921202	0.795777471	0.199513515	0.794759484	-0.128087423	2508.314432	-0.332577271
5A	5.00283427	0.050028343	0.997428582	0.199132217	0.994503024	-0.294172813	2507.865907	-0.314636261
7A	7.019604	0.03509802	1.39903241	0.199251687	1.396945481	-0.149392276	2508.735305	-0.349412206
9A	9.00338294	0.045016915	1.79430371	0.198977032	1.789743955	-0.254771332	2508.879319	-0.355172759
11A	11.00895025	0.022017901	2.19336554	0.199008108	2.1891479	-0.192661247	2509.602264	-0.384090561
13A	13.0160834	0.026032167	2.59280131	0.199907185	2.600286132	0.287846101	2510.042584	-0.401703361
15A	15.0417195	0.030083439	2.99774052	0.199106601	2.993183189	-0.152256998	2508.84281	-0.353712402
18A	18.0102593	0.036020519	3.58879639	0.199228991	3.586443336	-0.065609684	2509.233925	-0.369356981
21A	21.0165675	0.042033135	4.18774014	0.199425815	4.189523636	0.042570371	2509.296995	-0.371879808
24A	24.0052707	0.048010541	4.78376471	0.201150503	4.826949814	0.894666513	2509.035473	-0.361418904
27A	27.0076625	0.027007663	5.38769733	0.199845848	5.395646769	0.147330603	2506.419797	-0.256791894
30A	30.0028954	0.030002895	5.98628219	0.19915204	5.973415379	-0.215401249	2505.970688	-0.238827532
35A	35.0291958	0.035029196	6.98728017	0.200293901	7.014411817	0.3867986	2506.640277	-0.265611075
40A	40.0323785	0.040032379	7.98938715	0.199473827	7.983689296	-0.071368679	2505.347266	-0.213890624
45A	44.9933536	0.044993354	8.97897184	0.199230342	8.962318775	-0.185812015	2505.484726	-0.219389039
50A	49.9823885	0.049982389	9.97293897	0.197913537	9.890468841	-0.833834376	2505.90065	-0.236026011
60A	60.2751712	0.030137586	12.01002	0.199624597	12.03068433	0.171763577	2509.370143	-0.374805704
70A	69.9361084	0.034968054	13.9385807	0.18430964	12.88817648	-8.150138383	2508.724163	-0.34896652
80A	80.013195	0.040006598	15.7958849	0.123276051	9.861988212	-60.16937518	2532.722779	-1.308911158
90A	89.9239262	0.044961963	17.0176407	0.189244859	17.01591824	-0.010122617	2642.079704	-5.683188152

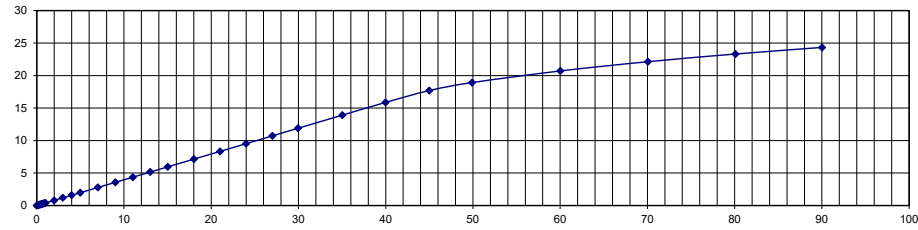
**CURRENT TRANSFORMER CHARACTERISTICS TEST**

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

<b>PRODUCT:</b>	CR8450-2500-N
<b>Lot #:</b>	31403
<b>TURNS/RATIO:</b>	2500
<b>DATE:</b>	June 22, 2020
<b>TESTER:</b>	lb

**TEST SETUP**

<b>FULL SCALE PRIMARY CURRENT(Amps):</b>	75
<b>Burden (Ohms):</b>	1000
<b>MEASUREMENT CT TURNS RATIO:</b>	2500
<b>FREQUENCY(Hz):</b>	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.001757638	0.001757638	0.000719563	0.397367157	-0.00105921	167.9338852	2442.64723	2.294110788
0.1A	0.10124163	0.10124163	0.040251234	0.396988015	0.038434076	-4.727986309	2515.242899	-0.609715969
0.2A	0.201870817	0.201870817	0.080199815	0.397303363	0.078446317	-2.235284394	2517.098288	-0.683931503
0.3A	0.30073663	0.30073663	0.119479535	0.39683481	0.117585126	-1.611096147	2517.055578	-0.68222311
0.4A	0.400961822	0.400961822	0.15925238	0.396770528	0.157332196	-1.22046476	2517.776011	-0.711040425
0.5A	0.500360853	0.500360853	0.198690986	0.396004781	0.196387652	-1.172850537	2518.286627	-0.73146509
0.6A	0.60304254	0.60304254	0.239353425	0.396721749	0.237482453	-0.787835713	2519.464846	-0.77859383
0.7A	0.699977949	0.699977949	0.27780981	0.396539779	0.275811464	-0.724533428	2519.630063	-0.78520251
0.8A	0.800135149	0.800135149	0.317526124	0.396015652	0.315108405	-0.767265893	2519.903367	-0.796134683
0.9A	0.900233526	0.900233526	0.357166648	0.396654391	0.355323943	-0.518598661	2520.485972	-0.819438886
1A	1.00047553	1.00047553	0.396928079	0.396526855	0.394957778	-0.498863802	2520.546121	-0.821844856
2A	2.00506416	2.00506416	0.795274449	0.396157256	0.792563077	-0.342101704	2521.222909	-0.848916372
3A	3.00011942	3.00011942	1.18947281	0.395745289	1.18552549	-0.332959563	2522.226145	-0.889045795
4A	4.0026698	0.040026698	1.5862274	0.395672588	1.58198908	-0.26791082	2523.389648	-0.935585907
5A	5.00093754	0.050009375	1.98121458	0.396436833	1.980798201	-0.021020747	2524.177639	-0.967105542
7A	7.01847742	0.035092387	2.7810417	0.396501907	2.781082041	0.001450543	2523.686509	-0.947460371
9A	9.01153742	0.045057687	3.57129379	0.396004197	3.566849	-0.1246139	2523.325705	-0.933028195
11A	11.01298535	0.022025971	4.36387557	0.397386887	4.374658327	0.246482264	2523.6708	-0.946831992
13A	13.0073193	0.026014639	5.15639773	0.396030412	5.14953639	-0.133241904	2522.559349	-0.902373952
15A	15.02086855	0.030041737	5.95382447	0.39758586	5.970327305	0.276414245	2522.894087	-0.915763477
18A	18.01535955	0.036030719	7.14439175	0.396363213	7.138868148	-0.077373636	2521.608582	-0.86434328
21A	21.0091721	0.042018344	8.33102891	0.397169139	8.342437156	0.136749559	2521.798007	-0.871920273
24A	24.01188045	0.048023761	9.523612	0.399904056	9.600690749	0.802845869	2521.299739	-0.85198956
27A	27.0246831	0.027024683	10.728444	0.397110256	10.73002119	0.01469886	2518.975082	-0.759003263
30A	29.9660234	0.029966023	11.8964804	0.397366363	11.90573209	0.077707886	2518.898228	-0.755929123
35A	35.0299558	0.035029956	13.9087168	0.395566124	13.85490619	-0.388386657	2518.561295	-0.742451813
40A	39.996937	0.039996937	15.8734863	0.364316926	14.56980349	-8.947840745	2519.732354	-0.789294158
45A	45.0060721	0.045006072	17.698399	0.249588619	11.23124577	-57.58179787	2542.945952	-1.717838094
50A	49.9118098	0.04991181	18.9228153	0.176827897	8.824042723	-114.4460979	2637.652432	-5.506097288
60A	60.023151	0.030011576	20.7107825	0.141578372	8.496222363	-143.7646005	2898.159497	-15.92637989
70A	70.0565246	0.035028262	22.1312912	0.117979495	8.263475756	-167.8206103	3165.496489	-26.61985958
80A	80.089357	0.040044679	23.3149597	0.102368316	8.196855005	-184.437869	3435.105959	-37.40423836
90A	90.0312378	0.045015619	24.3326933	0.270269452	24.33093566	-0.007223881	3700.011203	-48.0004481