

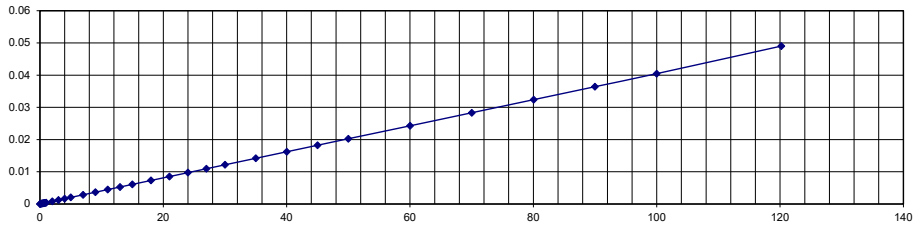
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000923678	0.000923678	2.20425E-05	0.000401814	-0.000923307	102.3873448	41.90437697	98.32382492
0.1A	0.099994867	0.099994867	6.18507E-05	0.000336784	-0.000890001	106.9495098	1616.712944	35.33148222
0.2A	0.200344934	0.200344934	9.5647E-05	0.000443201	-0.000834885	111.4563154	2094.627573	16.21489706
0.3A	0.300846536	0.300846536	0.000140189	0.000422196	-0.000796662	117.5971096	2145.999724	14.16001105
0.4A	0.401710306	0.401710306	0.000182774	0.000407235	-0.000760088	124.0463986	2197.856119	12.08575522
0.5A	0.499822688	0.499822688	0.000222728	0.000330197	-0.000758638	129.3589912	2244.089973	10.23640109
0.6A	0.608620107	0.608620107	0.000258653	0.000410793	-0.000673661	138.3951336	2353.036735	5.878530614
0.7A	0.700259607	0.700259607	0.000296298	0.000413264	-0.000634286	146.7136317	2363.363254	5.465469828
0.8A	0.799739357	0.799739357	0.000337409	0.000448524	-0.000564975	159.7210791	2370.23487	5.190605207
0.9A	0.900434569	0.900434569	0.000382574	0.00042191	-0.000543776	170.3550137	2353.624449	5.855022049
1A	0.999285853	0.999285853	0.00042428	0.000405385	-0.000518583	181.8152818	2355.251402	5.789943908
2A	2.00112143	2.00112143	0.000830409	0.000398328	-0.000126575	756.0619347	2409.80289	3.607884387
3A	3.0053726	3.0053726	0.00123043	0.000404605	0.000292311	-320.9314431	2442.537728	2.298490893
4A	4.00209795	0.04002098	0.001633711	0.000409095	0.000713561	-128.9517051	2449.698221	2.012071171
5A	5.01311204	0.05013112	0.002047312	0.000408169	0.001122521	-82.38509916	2448.631631	2.054734764
7A	7.00884414	0.035044221	0.002861909	0.000404117	0.001908718	-49.93879142	2449.010518	2.039579287
9A	9.00689564	0.045034478	0.003669356	0.000405385	0.002727581	-34.52785039	2454.625781	1.81496877
11A	11.00183215	0.022003664	0.004478073	0.00040479	0.003529754	-26.86643152	2456.822917	1.727083314
13A	12.99295915	0.025985918	0.005284061	0.000403496	0.004318931	-22.34650269	2458.896389	1.644144451
15A	14.98282195	0.029965644	0.006086963	0.000404722	0.005140204	-18.41871083	2461.460881	1.541564751
18A	18.00474175	0.036009484	0.007310002	0.000404178	0.006353435	-15.05589184	2463.028448	1.478862069
21A	21.00628235	0.042012565	0.008523157	0.000404693	0.007577426	-12.48090494	2464.612863	1.415485484
24A	24.0111438	0.048022288	0.009739205	0.000406526	0.008837472	-10.20351264	2465.411179	1.383552827
27A	27.0024213	0.027002421	0.010955236	0.000404501	0.009988839	-9.565078974	2464.795925	1.408162988
30A	30.0221451	0.030022145	0.012176719	0.000404378	0.011216624	-8.559572765	2465.536577	1.378536907
35A	35.0056492	0.035005649	0.014191939	0.000404553	0.013237947	-7.206491981	2466.586768	1.33652927
40A	40.011057	0.040011057	0.01621689	0.00040511	0.015285184	-6.095484175	2467.246047	1.310158137
45A	45.0071899	0.04500719	0.018240871	0.000405287	0.017317132	-5.334245921	2467.381637	1.304734523
50A	50.0131752	0.050013175	0.02026973	0.000400409	0.019102061	-6.112789765	2467.382456	1.304701766
60A	60.0055726	0.030002786	0.024270778	0.000405376	0.023401165	-3.716109647	2472.338231	1.106470748
70A	70.0213722	0.035010686	0.028330947	0.000404989	0.02743421	-3.26868244	2471.55072	1.137971213
80A	80.0641568	0.040032078	0.032398165	0.000404821	0.03148796	-2.89064348	2471.25595	1.149761987
90A	89.9905506	0.044995275	0.036416575	0.000405032	0.035525406	-2.508540681	2471.142594	1.154296238
100A	99.9951194	0.04999756	0.040468749	0.000423622	0.041436431	2.33539932	2470.921906	1.163123761
120A	120.2163104	0.030054078	0.049034886	0.000407889	0.048111208	-1.919881008	2451.648616	1.934055358

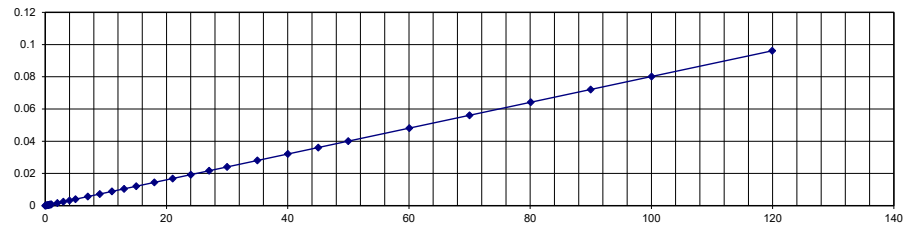
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.00083886	0.00083886	2.19721E-05	0.000810573	-0.00083818	102.6214024	76.35693268	96.94572269
0.1A	0.100335755	0.100335755	0.000102622	0.00078688	-0.000759908	113.5044761	1955.45134	21.78194641
0.2A	0.200851095	0.200851095	0.000181715	0.000793206	-0.000679544	126.7407451	2210.615779	11.57536883
0.3A	0.30086532	0.30086532	0.000261047	0.00078327	-0.000603201	143.2769328	2305.066635	7.797334595
0.4A	0.400045979	0.400045979	0.000338732	0.000783784	-0.00052531	164.4823126	2362.018901	5.519243958
0.5A	0.500251213	0.500251213	0.000417272	0.000789442	-0.000443941	193.992592	2397.7251	4.09099598
0.6A	0.600337769	0.600337769	0.000496284	0.000793716	-0.000362362	236.9580103	2419.331348	3.226746072
0.7A	0.699886921	0.699886921	0.000575298	0.000796206	-0.000281606	304.2915915	2433.129018	2.674839261
0.8A	0.800932157	0.800932157	0.000655751	0.000793575	-0.00020326	422.6159198	2442.795011	2.288199541
0.9A	0.900449436	0.900449436	0.000734725	0.000805473	-0.000113572	746.9244591	2451.119572	1.955217101
1A	1.00311323	1.00311323	0.000817418	0.000800685	-3.5682E-05	2390.838863	2454.345905	1.826163781
2A	1.99959046	1.99959046	0.001615283	0.000802544	0.000765898	-110.9003801	2475.839675	0.966413018
3A	3.00094258	3.00094258	0.002418911	0.000797957	0.001555762	-55.48078002	2481.23399	0.750640394
4A	4.01377114	0.040137711	0.003227105	0.000803836	0.002387556	-35.1635433	2487.536918	0.498523261
5A	5.00614077	0.050061408	0.004024808	0.000801737	0.003174748	-26.77566483	2487.642215	0.494311418
7A	7.01177072	0.035058854	0.005632795	0.000802719	0.004789623	-17.60415777	2489.623836	0.415046576
9A	9.00634662	0.045031733	0.00723388	0.000801191	0.00637694	-13.43810804	2490.046045	0.39815819
11A	11.00594635	0.022011893	0.00883594	0.00080059	0.007972386	-10.83181039	2491.177263	0.352909483
13A	13.01462	0.02602924	0.010444063	0.000799832	0.009570648	-9.125981661	2492.252249	0.309910036
15A	15.0038037	0.030007607	0.012035076	0.000801	0.011179191	-7.65605024	2493.345962	0.266161517
18A	18.0176555	0.036035311	0.014449172	0.000800414	0.013582721	-6.379063654	2493.936071	0.242557153
21A	21.03607255	0.042072145	0.016865155	0.000800041	0.015990856	-5.467490906	2494.619563	0.215217473
24A	24.0063087	0.048012617	0.019241465	0.000801373	0.018399145	-4.578036861	2495.268299	0.189268022
27A	27.0248727	0.027024873	0.02166046	0.000800002	0.020781086	-4.231608093	2495.318412	0.187263518
30A	30.0029367	0.030002937	0.024042917	0.00080078	0.023186893	-3.691843794	2495.781768	0.168729278
35A	35.0080814	0.035008081	0.028050937	0.000801387	0.027216151	-3.067246031	2496.036525	0.158539019
40A	40.0341107	0.040034111	0.03207873	0.000801078	0.031231604	-2.712399595	2495.991016	0.160359342
45A	45.0397211	0.045039721	0.036088617	0.000801557	0.035263064	-2.341126662	2496.062497	0.157500136
50A	49.9952468	0.049995247	0.040060755	0.000802763	0.039295468	-1.947518552	2495.971272	0.161149135
60A	60.0499046	0.030024952	0.048132261	0.000801416	0.047286097	-1.789456398	2495.203975	0.191841019
70A	70.0119698	0.035005985	0.05611602	0.000801914	0.055304753	-1.466902129	2495.257853	0.189685869
80A	80.1048194	0.04005241	0.064209622	0.000801676	0.06337924	-1.310180678	2495.10327	0.19586921
90A	89.9974638	0.044998732	0.072140317	0.000801969	0.071336326	-1.127042487	2495.067059	0.197317626
100A	100.0435132	0.050021757	0.080196938	0.000801095	0.079305512	-1.124040431	2494.945962	0.202161509
120A	119.9240488	0.029981012	0.096123138	0.000801533	0.095284278	-0.880376171	2495.217092	0.19131633

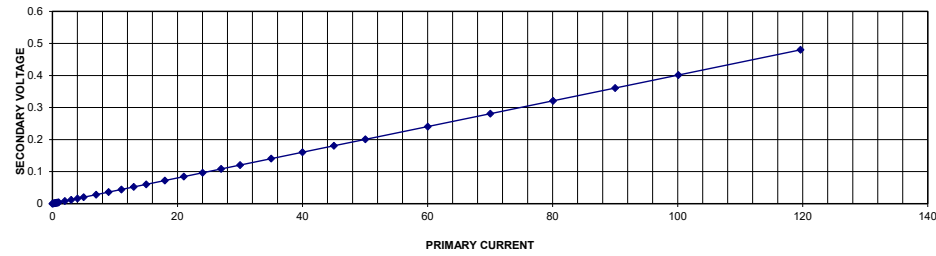
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.001034892	0.001034892	2.28359E-05	0.004018835	-0.001030733	102.2154973	453.187222	81.87251112
0.1A	0.101197665	0.101197665	0.000425374	0.003998132	-0.000630291	167.4884749	2379.030546	4.838778149
0.2A	0.200716226	0.200716226	0.000823262	0.003981341	-0.000235773	449.1763161	2438.060398	2.477584078
0.3A	0.300277148	0.300277148	0.001219648	0.004002157	0.000168684	-630.9235724	2461.998668	1.5200533
0.4A	0.399909506	0.399909506	0.001618392	0.004014165	0.000570411	-183.7240838	2471.029603	1.158815884
0.5A	0.500839838	0.500839838	0.002023543	0.004012212	0.000974583	-107.6316079	2475.063669	0.997453254
0.6A	0.600563825	0.600563825	0.002423657	0.004020803	0.001379857	-75.64557289	2477.924115	0.883035411
0.7A	0.700153021	0.700153021	0.002824086	0.004028978	0.001786009	-58.12272002	2479.220251	0.831189961
0.8A	0.800148554	0.800148554	0.003226965	0.004025397	0.002186023	-47.61808572	2479.56968	0.817212793
0.9A	0.900602087	0.900602087	0.003631331	0.004031615	0.002595988	-39.88240687	2480.088317	0.796467309
1A	1.00045269	1.00045269	0.00403389	0.004012859	0.002979783	-35.37529561	2480.11901	0.795239612
2A	2.00433841	2.00433841	0.008062341	0.004008406	0.006999309	-15.18766669	2486.050076	0.557996971
3A	3.0022164	3.0022164	0.012054245	0.004001333	0.010969994	-9.88379295	2488.9336	0.442655996
4A	4.00346483	0.040034648	0.016068556	0.0040108	0.015022206	-6.965350058	2491.490169	0.340393258
5A	5.00292851	0.050029285	0.020077205	0.004025132	0.019102555	-5.10219715	2491.84511	0.326195603
7A	7.00633	0.03503165	0.02814116	0.00400849	0.027049911	-4.03420669	2489.708998	0.411640099
9A	9.00512554	0.045025628	0.036153312	0.003993882	0.034930517	-3.500651263	2490.816198	0.367352069
11A	11.0285555	0.022057111	0.044234653	0.004016043	0.043256262	-2.261847531	2493.193651	0.272253975
13A	13.00417765	0.026008355	0.052168836	0.004013913	0.051162751	-1.966440314	2492.709934	0.291602633
15A	15.0053271	0.030010654	0.060201277	0.004013164	0.059183951	-1.718922019	2492.526379	0.298944821
18A	17.9930394	0.035986079	0.072191457	0.004014299	0.071194543	-1.400268499	2492.405618	0.303775277
21A	21.0149334	0.042029867	0.084322243	0.004005842	0.083147611	-1.412706809	2492.217089	0.311316436
24A	24.0267764	0.048053553	0.09638721	0.004027146	0.095724454	-0.69235738	2492.734923	0.29060308
27A	26.9952111	0.026995211	0.108341531	0.004008842	0.107184631	-1.079352174	2491.677093	0.332916285
30A	30.009324	0.030009324	0.120424632	0.004011621	0.119351147	-0.899434171	2491.958954	0.321641838
35A	34.9993747	0.034999375	0.140442825	0.004005456	0.139153561	-0.926504739	2492.07282	0.317087185
40A	39.998302	0.039998302	0.160465808	0.004019408	0.159734589	-0.457771233	2492.637061	0.294517571
45A	45.029873	0.045029873	0.180689743	0.003962453	0.177393875	-1.857938152	2492.110081	0.315596774
50A	50.0649512	0.025032476	0.200641005	0.004011702	0.199810754	-0.415518846	2495.250221	0.189991174
60A	60.029108	0.030014554	0.240614229	0.004009692	0.239663339	-0.396760628	2494.827852	0.206885936
70A	70.0378402	0.03501892	0.280746162	0.004012382	0.279983706	-0.272321589	2494.70339	0.21186441
80A	80.0832334	0.040041617	0.321052121	0.004011357	0.320207579	-0.263748239	2494.399761	0.224009546
90A	90.0174908	0.045008745	0.360901978	0.004009465	0.359887047	-0.282013877	2494.23656	0.230537612
100A	100.1064574	0.050053229	0.401353332	0.004027003	0.402094063	0.18421844	2494.222657	0.231093734
120A	119.6446672	0.029911167	0.480033752	0.004012162	0.47899886	-0.216053184	2492.421975	0.303121019

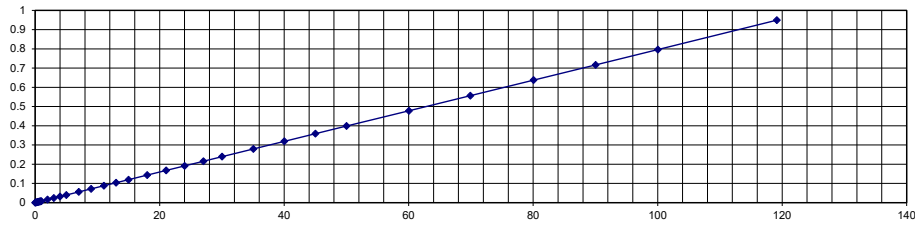
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000928359	0.000928359	2.27959E-05	0.007997159	-0.000920935	102.4752974	814.4973725	67.4201051
0.1A	0.100559341	0.100559341	0.000819561	0.007968803	-0.000127022	745.2133645	2453.98167	1.840733196
0.2A	0.200442562	0.200442562	0.00161551	0.007965125	0.000668191	-141.7738528	2481.476591	0.740936363
0.3A	0.300401469	0.300401469	0.002411696	0.007966396	0.001464758	-64.6480762	2491.205577	0.351776908
0.4A	0.400021184	0.400021184	0.003205306	0.00796941	0.002259574	-41.85445318	2495.994011	0.160239571
0.5A	0.49961988	0.49961988	0.003999048	0.007964371	0.003050799	-31.08201427	2498.693796	0.052248179
0.6A	0.600540715	0.600540715	0.004802819	0.007962009	0.003853151	-24.64652564	2500.784065	-0.03136262
0.7A	0.69999335	0.69999335	0.005594662	0.007967372	0.004648748	-20.34772268	2502.361434	-0.094457356
0.8A	0.800883239	0.800883239	0.006398489	0.007961967	0.005448247	-17.44125335	2503.350964	-0.134038542
0.9A	0.899737567	0.899737567	0.007185564	0.007972294	0.006244613	-15.06820696	2504.291986	-0.17167943
1A	1.00024671	1.00024671	0.007986853	0.007970479	0.007044086	-13.38380121	2504.733041	-0.18932163
2A	2.00232914	2.00232914	0.01597393	0.007962134	0.015014454	-6.390350476	2506.996282	-0.279850481
3A	3.00042399	3.00042399	0.023920895	0.007643123	0.022004251	-8.710333194	2508.621847	-0.344873885
4A	3.9985632	0.39985632	0.031549796	0.008291739	0.032226684	2.100396661	2534.76326	-1.390530381
5A	5.00131681	0.050013168	0.039864368	0.007977679	0.038970541	-2.293595505	2509.166512	-0.366660476
7A	7.0119122	0.035059561	0.055904252	0.007970687	0.054961397	-1.715485822	2508.543415	-0.341736616
9A	8.99875162	0.044993758	0.071740727	0.007960476	0.070705983	-1.46344614	2508.687038	-0.347481507
11A	11.0408064	0.022081613	0.087996454	0.007968521	0.087050537	-1.086629965	2509.375287	-0.375011473
13A	13.0128126	0.026025625	0.103710427	0.007966307	0.102735695	-0.948776621	2509.451166	-0.378046655
15A	15.0163107	0.030032621	0.119670907	0.007959658	0.118596339	-0.906071717	2509.600884	-0.384035361
18A	18.01053895	0.036021078	0.14350394	0.007958625	0.142410766	-0.76762	2510.110726	-0.404429035
21A	21.05987385	0.042119748	0.167772453	0.007955254	0.166608291	-0.69874217	2510.528215	-0.42112861
24A	24.02269935	0.048045399	0.191342483	0.007979297	0.190755897	-0.307506261	2510.96348	-0.438539203
27A	27.0281568	0.027028157	0.215323921	0.00797756	0.214690372	-0.295098843	2510.464854	-0.418594179
30A	30.0430214	0.030043021	0.239375183	0.007962903	0.238301318	-0.450633446	2510.119973	-0.404798939
35A	35.0539477	0.035053948	0.279276705	0.007962766	0.278198024	-0.387738623	2510.338104	-0.413524143
40A	40.0299971	0.040029997	0.318899822	0.00797395	0.318268847	-0.198252127	2510.50608	-0.420243195
45A	45.0366916	0.045036692	0.358822955	0.007980692	0.358495603	-0.091312684	2510.245845	-0.409833813
50A	50.0280202	0.05002802	0.398657211	0.007908016	0.394694008	-1.00412051	2509.826428	-0.393057132
60A	60.0591942	0.030029597	0.477983892	0.007963983	0.477382027	-0.126076222	2513.021681	-0.52086726
70A	69.917368	0.034958684	0.556494218	0.007958211	0.555488776	-0.181001377	2512.779675	-0.511186982
80A	80.084501	0.040042251	0.637406403	0.007949656	0.635715879	-0.265924487	2512.823863	-0.512954527
90A	90.0499412	0.045024971	0.716628225	0.007979795	0.717651672	0.142610612	2513.156419	-0.526256777
100A	100.0323166	0.050016158	0.79628553	0.008003616	0.799691891	0.425959134	2512.473355	-0.498941981
120A	119.1480664	0.029787017	0.949280651	0.007967235	0.948352292	-0.097891814	2510.281154	-0.411246157

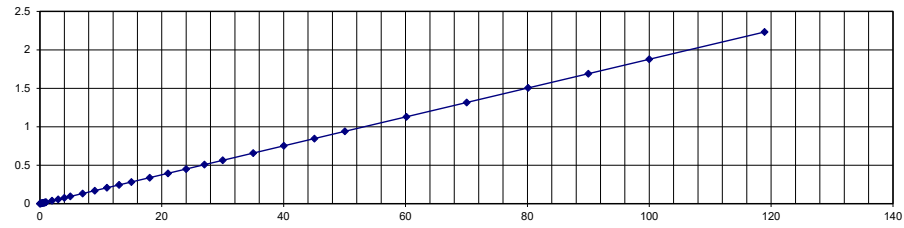
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000928732	0.000928732	3.03671E-05	0.01882308	-0.00091251	103.3324679	1437.422906	42.50308377
0.1A	0.100395444	0.100395444	0.001902637	0.018817141	0.000960423	-98.10410451	2480.024156	0.799033779
0.2A	0.200240362	0.200240362	0.003781433	0.018808422	0.002837473	-33.26763916	2488.817596	0.447296153
0.3A	0.30018407	0.30018407	0.005661216	0.018828966	0.004723423	-19.85410191	2492.158958	0.313641673
0.4A	0.40063793	0.40063793	0.007552659	0.018795402	0.006601419	-14.40963219	2493.15947	0.273621206
0.5A	0.499982837	0.499982837	0.009419886	0.018800481	0.008471185	-11.19915312	2494.636635	0.214534591
0.6A	0.599987373	0.599987373	0.01130002	0.018796899	0.01034917	-9.187692219	2495.518373	0.179265066
0.7A	0.700968023	0.700968023	0.013198143	0.018771204	0.012229282	-7.922469726	2496.222221	0.151111168
0.8A	0.799578643	0.799578643	0.015049183	0.018778134	0.014085863	-6.838915379	2497.158598	0.113656082
0.9A	0.900344549	0.900344549	0.016941379	0.018740894	0.01594453	-6.251979576	2497.801097	0.087956118
1A	1.00020919	1.00020919	0.018812931	0.018784412	0.017859609	-5.337866814	2498.804223	0.047831079
2A	1.99989221	1.99989221	0.037591389	0.018779539	0.03662832	-2.629300069	2500.437909	-0.17516373
3A	2.99959885	2.99959885	0.056365418	0.018783969	0.05541564	-1.713917976	2501.19932	-0.047972819
4A	4.01049718	0.040104972	0.075354101	0.018826195	0.07457367	-1.046524415	2501.434749	-0.057389954
5A	5.00207366	0.050020737	0.094021714	0.018791641	0.093068438	-1.024273477	2500.459237	-0.018369489
7A	7.02140562	0.035107028	0.131968274	0.018802017	0.131087855	-0.671625201	2500.646967	-0.025878687
9A	9.00268588	0.045013429	0.169220339	0.018695886	0.167384454	-1.096807159	2500.445507	-0.017820283
11A	11.0165274	0.022033055	0.20687089	0.01875901	0.205730418	-0.554352667	2502.898246	-0.115929854
13A	13.00685165	0.026013703	0.244207403	0.018758605	0.243061663	-0.471378372	2503.290318	-0.131612726
15A	15.01638645	0.030032773	0.281903473	0.018741213	0.28049656	-0.501579309	2503.588039	-0.143521559
18A	18.0087014	0.036017403	0.337983084	0.018788066	0.33741993	-0.166899921	2504.293871	-0.171754844
21A	21.0156735	0.042031347	0.394478273	0.018763819	0.393405553	-0.27267527	2503.906355	-0.156254182
24A	24.00915655	0.048018313	0.450647446	0.018852131	0.451695034	0.231923761	2504.020311	-0.160812437
27A	27.0042712	0.027004271	0.507111174	0.018771709	0.505987575	-0.222172423	2502.802925	-0.112117018
30A	30.0003711	0.030000371	0.563353654	0.018797705	0.563009408	-0.061143962	2502.899256	-0.115970257
35A	35.0164407	0.035016441	0.657644253	0.01881088	0.657761319	0.017797674	2502.527324	-0.101092978
40A	40.0415746	0.040041575	0.752171442	0.018816532	0.752514844	0.045633948	2502.027997	-0.081119868
45A	45.0458923	0.045045892	0.846335347	0.018822679	0.846955632	0.073237021	2501.557977	-0.062319061
50A	50.0635759	0.050063576	0.940781594	0.018748654	0.937695923	-0.329069438	2501.099174	-0.043966944
60A	60.1570006	0.0300785	1.13001972	0.018779089	1.128764925	-0.111165344	2502.06167	-0.082466816
70A	70.0546198	0.03502731	1.31588799	0.018768159	1.313867499	-0.15378198	2502.163676	-0.08654705
80A	80.1182516	0.040059126	1.50476383	0.01874175	1.500627491	-0.275640651	2502.424467	-0.096978679
90A	90.002818	0.045001409	1.6900179	0.018759541	1.687482841	-0.150227248	2503.010439	-0.120417565
100A	99.9921156	0.049996058	1.87741254	0.018749244	1.873847832	-0.190234674	2503.248132	-0.129925268
120A	118.9249612	0.02973124	2.23238908	0.018771409	2.231460348	-0.041619939	2503.807793	-0.152311736

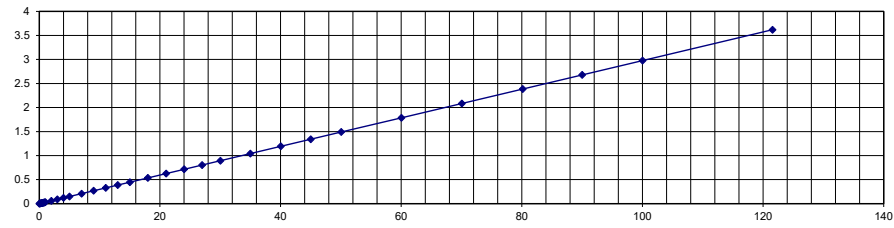
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000929686	0.000929686	3.66485E-05	0.029836367	-0.000901947	104.0632658	1902.571733	23.89713069
0.1A	0.10013839	0.10013839	0.002996676	0.029839282	0.002058372	-45.58476134	2506.236827	-0.249473099
0.2A	0.200348624	0.200348624	0.005986877	0.029791237	0.005038947	-18.81205795	2509.847162	-0.393886481
0.3A	0.300569294	0.300569294	0.008972575	0.029806667	0.008029284	-11.74813097	2512.399983	-0.495999314
0.4A	0.400284665	0.400284665	0.011944758	0.029804834	0.011000732	-8.581481759	2513.349339	-0.533973559
0.5A	0.500530447	0.500530447	0.014932567	0.029769146	0.013970678	-6.885055052	2513.953798	-0.558151924
0.6A	0.600377645	0.600377645	0.017904933	0.029498217	0.016780384	-6.7015663	2514.855759	-0.594230379
0.7A	0.701022542	0.701022542	0.020873778	0.030050438	0.020136349	-3.66217806	2518.791335	-0.751653397
0.8A	0.800612241	0.800612241	0.023866492	0.029778592	0.022911419	-4.168544175	2515.908845	-0.636353808
0.9A	0.900174854	0.900174854	0.026831326	0.029732129	0.025834429	-3.858793204	2516.204875	-0.648195017
1A	1.00073213	1.00073213	0.029821108	0.029783074	0.028875193	-3.275874014	2516.838383	-0.673535332
2A	2.00178145	2.00178145	0.059635434	0.029775626	0.058674611	-1.637545434	2517.523533	-0.700941322
3A	3.00060364	3.00060364	0.08937599	0.029782657	0.088436264	-1.062602986	2517.961166	-0.71844664
4A	4.00993341	0.040099334	0.119436513	0.029765641	0.118428552	-0.851112947	2518.032369	-0.721294752
5A	5.00301977	0.050030198	0.148996365	0.029722952	0.147774831	-0.826618327	2518.35998	-0.734399192
7A	7.00933448	0.035046672	0.208629961	0.029864452	0.208400244	-0.110228558	2519.772728	-0.790909125
9A	9.00571184	0.045028559	0.268250676	0.029662894	0.266205789	-0.768160236	2517.900041	-0.716001625
11A	11.00791615	0.022015832	0.32764185	0.029770405	0.326780434	-0.263606818	2519.805425	-0.79221702
13A	13.0131087	0.026026217	0.387337244	0.029713844	0.3857398	-0.414124723	2519.724523	-0.788980933
15A	15.00758065	0.030015161	0.446600673	0.029710789	0.444957378	-0.369315221	2520.301954	-0.812078154
18A	18.0007855	0.036001571	0.535531151	0.029761443	0.534799658	-0.136778898	2520.971768	-0.838870716
21A	21.0225483	0.042045097	0.625463171	0.029712733	0.623707687	-0.2814594	2520.83767	-0.83350679
24A	24.0163839	0.048032768	0.71441821	0.029891842	0.716964269	0.355116576	2521.252632	-0.850105291
27A	27.003784	0.027003784	0.803717102	0.029822651	0.804394741	0.084242124	2519.89636	-0.79585441
30A	30.0175936	0.030017594	0.893596894	0.029839024	0.894766023	0.13066312	2519.390494	-0.775619751
35A	35.0025614	0.035002561	1.04234347	0.029926177	1.046563165	0.403195464	2518.548042	-0.741921662
40A	40.0422569	0.040042257	1.19316229	0.029756437	1.190585196	-0.216456044	2516.983056	-0.679322257
45A	45.0101602	0.04501016	1.34098939	0.029720785	1.336807619	-0.312817732	2517.366685	-0.69466739
50A	50.0732448	0.050073245	1.49146824	0.029526488	1.477557366	-0.941477736	2517.984131	-0.719365234
60A	60.0400716	0.030020036	1.78575363	0.02977996	1.787061256	0.073171862	2521.627449	-0.865097947
70A	70.0608308	0.035030415	2.08417144	0.029780415	2.085510905	0.06422717	2521.175662	-0.847026481
80A	80.159345	0.040079673	2.38490938	0.029792958	2.387254332	0.098227985	2520.8299	-0.833196019
90A	90.0230456	0.045011523	2.6787782	0.029791427	2.680985322	0.082325019	2520.450711	-0.818028458
100A	100.0164282	0.050008214	2.97649533	0.029829527	2.982513049	0.201766719	2520.155849	-0.806233954
120A	121.5603304	0.030390083	3.61913974	0.029772375	3.618210054	-0.025694632	2519.113777	-0.764551081

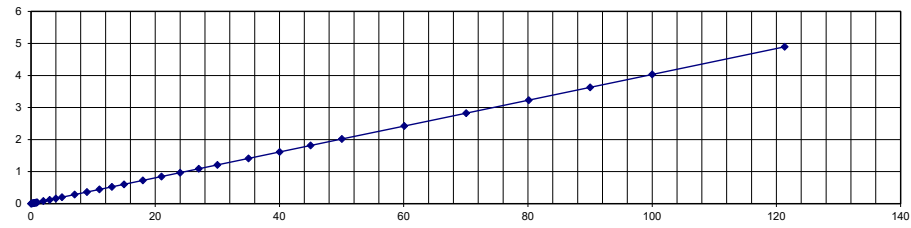
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	100
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000838735	0.000838735	3.90459E-05	0.040501874	-0.000804765	104.8518339	2148.077486	14.07690057
0.1A	0.099960764	0.099960764	0.004053674	0.040372607	0.003196941	-26.79850814	2465.930163	1.362793491
0.2A	0.200283279	0.200283279	0.008103955	0.040358494	0.007244396	-11.86515802	2471.426283	1.142948691
0.3A	0.300177521	0.300177521	0.012135536	0.040353483	0.011274473	-7.637282644	2473.541433	1.05834267
0.4A	0.399958217	0.399958217	0.016162035	0.040354802	0.015301499	-5.623866671	2474.677335	1.012906605
0.5A	0.499663968	0.499663968	0.020185641	0.040332217	0.01931382	-4.513973068	2475.343602	0.986255933
0.6A	0.600296941	0.600296941	0.024244392	0.040294986	0.023350221	-3.829387348	2476.023933	0.959042664
0.7A	0.701162898	0.701162898	0.028308784	0.04031851	0.027431108	-3.199564984	2476.838631	0.926454771
0.8A	0.800278922	0.800278922	0.032304994	0.04028646	0.031401669	-2.876679539	2477.260674	0.909573041
0.9A	0.901062298	0.901062298	0.0363652	0.04029967	0.035473778	-2.512902922	2477.814787	0.887408516
1A	1.00067348	1.00067348	0.040379498	0.040331502	0.039519929	-2.175024436	2478.17219	0.873112399
2A	2.00024175	2.00024175	0.080693588	0.040327444	0.079825902	-1.086972693	2478.811275	0.847549005
3A	2.99775707	2.99775707	0.120920831	0.040341677	0.120095811	-0.686968225	2479.107235	0.835710598
4A	4.00467521	0.040046752	0.161541597	0.040346935	0.160737637	-0.500169283	2479.036536	0.838538572
5A	4.99991977	0.049999198	0.201696665	0.040349874	0.200907399	-0.392850744	2478.930313	0.84278746
7A	7.01178636	0.035058932	0.282875229	0.040382715	0.282316235	-0.198002669	2478.755876	0.849764968
9A	9.00951432	0.045047572	0.363548908	0.040021383	0.359734487	-1.060343414	2478.212456	0.871501779
11A	11.015733	0.022031466	0.443840554	0.04029387	0.443027774	-0.183460181	2481.912232	0.723510723
13A	13.0319465	0.026063893	0.525081598	0.040250077	0.523698111	-0.264176502	2481.889777	0.724408933
15A	14.98671885	0.029973438	0.603761335	0.040296959	0.603080463	-0.11289895	2482.225671	0.710973153
18A	18.0093894	0.036018779	0.725565767	0.040330852	0.72549529	-0.009714288	2482.116745	0.715330193
21A	21.01240525	0.042024811	0.846679956	0.040286631	0.845680277	-0.118210024	2481.741194	0.730352237
24A	24.0158787	0.048031757	0.967679782	0.040562615	0.973308097	0.578266499	2481.800193	0.727992269
27A	27.007351	0.027007351	1.08902172	0.040388377	1.089944334	0.084647824	2479.964403	0.801423869
30A	30.0135035	0.030013504	1.21043534	0.040286978	1.208314624	-0.175510268	2479.562725	0.817491003
35A	35.0144281	0.035014428	1.41190748	0.040290124	1.409896906	-0.142604346	2479.937857	0.802485727
40A	40.0299982	0.040029998	1.61398542	0.040407978	1.616692534	0.167447668	2480.195775	0.79216899
45A	45.0225668	0.045022567	1.81572502	0.040392083	1.817716523	0.109560724	2479.591695	0.8163322
50A	50.0385292	0.050038529	2.01833019	0.040116249	2.006519348	-0.588623404	2479.204317	0.831827324
60A	60.0991132	0.030049557	2.42192308	0.040369642	2.425340933	0.140922581	2481.462508	0.741499685
70A	70.0547044	0.035027352	2.82382673	0.040376034	2.827692417	0.136708198	2480.842881	0.766284764
80A	80.1375646	0.040068782	3.23093264	0.040350566	3.232757377	0.056445224	2480.322976	0.787080971
90A	90.0288922	0.045014446	3.63005331	0.040296372	3.626998977	-0.084211015	2480.098349	0.79606605
100A	100.017049	0.050008525	4.03253979	0.040460003	4.045851396	0.329018667	2480.249525	0.790018987
120A	121.32694	0.030331735	4.89473805	0.040343373	4.893899315	-0.017138387	2478.721818	0.851127263

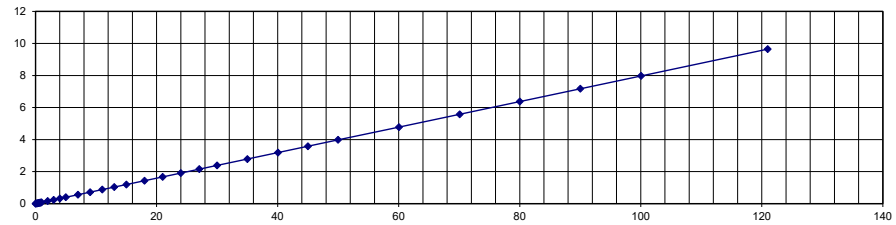
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000795659	0.000795659	6.14917E-05	0.079866446	-0.000732112	108.3992105	2587.859303	-3.51437212
0.1A	0.099907472	0.099907472	0.0079772	0.079688088	0.007165777	-11.32359226	2504.825582	-0.193023269
0.2A	0.200399356	0.200399356	0.015985206	0.079638505	0.015163846	-5.416565312	2507.310272	-0.29241087
0.3A	0.300200507	0.300200507	0.023933221	0.079674892	0.023122784	-3.504925355	2508.651161	-0.34604645
0.4A	0.40025849	0.40025849	0.03190533	0.079624711	0.031074808	-2.672652623	2509.038435	-0.361537404
0.5A	0.500219262	0.500219262	0.039864677	0.07954729	0.038995428	-2.229105737	2509.586423	-0.383456913
0.6A	0.600775828	0.600775828	0.047863679	0.079467604	0.046946557	-1.953545923	2510.362076	-0.414483054
0.7A	0.700880215	0.700880215	0.055818735	0.079585312	0.054984112	-1.517935976	2511.272291	-0.450891621
0.8A	0.800379927	0.800379927	0.063737451	0.079502326	0.062836407	-1.4395237	2511.490237	-0.459609947
0.9A	0.900328309	0.900328309	0.07168358	0.079587956	0.070859631	-1.162789497	2511.951312	-0.478052466
1A	1.00084793	1.00084793	0.079683731	0.07968184	0.078953745	-0.924573458	2512.050879	-0.482035161
2A	2.0023451	2.0023451	0.159316692	0.079535887	0.158294767	-0.645583415	2511.016874	-0.44067498
3A	2.99937061	2.99937061	0.238783868	0.079616265	0.238003026	-0.328080672	2512.205397	-0.488215896
4A	4.00866885	0.040086689	0.319140424	0.079597038	0.318282508	-0.269545378	2512.166149	-0.486645966
5A	5.00835831	0.050083583	0.398712744	0.079687108	0.398305932	-0.102135454	2512.263972	-0.490558887
7A	7.00806326	0.035040316	0.558063449	0.079592212	0.556991596	-0.19243606	2511.565046	-0.462601843
9A	9.01191172	0.045059559	0.71755418	0.079464932	0.715335293	-0.310188342	2511.841467	-0.473658672
11A	11.02268685	0.022045374	0.877340289	0.079075473	0.870828519	-0.7477672	2512.750637	-0.510025478
13A	13.0039543	0.026007909	1.03400995	0.079488217	1.032865478	-0.110805479	2515.247421	-0.609896839
15A	15.00501215	0.030010024	1.19307047	0.079249864	1.188349507	-0.397270556	2515.360581	-0.61442322
18A	18.0050052	0.03601001	1.43081951	0.079535993	1.4312503	0.030098841	2516.740242	-0.669609684
21A	21.0179522	0.042035904	1.67045724	0.079727639	1.674916047	0.266210751	2516.431034	-0.657241367
24A	24.00723475	0.04801447	1.90878568	0.080373429	1.928748123	1.034994805	2515.445815	-0.61783259
27A	27.0646392	0.027064639	2.15451976	0.079467412	2.149961175	-0.212031053	2512.359339	-0.494373558
30A	30.0114986	0.030011499	2.38869905	0.079584395	2.387651292	-0.043882364	2512.790265	-0.511610619
35A	35.0108096	0.03501081	2.78656619	0.079733279	2.790731006	0.149237462	2512.828134	-0.513125367
40A	40.0688672	0.040068867	3.18986171	0.079873337	3.199638494	0.305559007	2512.263593	-0.490543711
45A	45.0180504	0.04501805	3.58516949	0.079938977	3.597901254	0.353866396	2511.348516	-0.453940659
50A	49.9952862	0.049995286	3.98304463	0.079049097	3.951286547	-0.803740327	2510.405524	-0.416220945
60A	60.0660772	0.030033039	4.77913156	0.079780772	4.791322333	0.254434408	2513.681678	-0.547267127
70A	70.0954936	0.035047747	5.57928614	0.079866918	5.597515385	0.325666722	2512.704738	-0.50818953
80A	80.003164	0.040001582	6.37058124	0.079848382	6.387327516	0.262179705	2511.644102	-0.465764094
90A	90.0266498	0.045013325	7.17094036	0.079794645	7.18284893	0.16579174	2510.874314	-0.434972576
100A	100.048656	0.050024328	7.97064279	0.080072352	8.010335559	0.495519428	2510.428798	-0.4171151927
120A	120.9655672	0.030241392	9.64550907	0.079737642	9.644713411	-0.008249689	2508.225669	-0.32902676

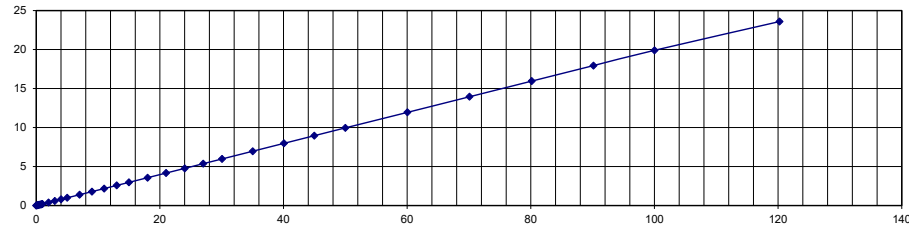
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000782137	0.000782137	0.000135616	0.198921012	-0.000626553	121.6447202	2883.650931	-15.34603726	
0.1A	0.100399355	0.100399355	0.019951574	0.198417963	0.019138899	-4.246193184	2516.0761	-0.643044015	
0.2A	0.199357902	0.199357902	0.039586727	0.197950261	0.038680812	-2.342025858	2517.989205	-0.719568205	
0.3A	0.300259786	0.300259786	0.059560281	0.198101627	0.058699815	-1.465874663	2520.637747	-0.82550987	
0.4A	0.400046263	0.400046263	0.079328145	0.198126239	0.078477525	-1.083902141	2521.464891	-0.858595652	
0.5A	0.500672013	0.500672013	0.099264746	0.198239904	0.098471035	-0.806034482	2521.902454	-0.876098147	
0.7A	0.699669617	0.699669617	0.138714012	0.198301119	0.137963131	-0.544261943	2521.986088	-0.879443527	
0.8A	0.801503682	0.801503682	0.158907821	0.198500049	0.158316383	-0.373579514	2521.91389	-0.876555598	
0.9A	0.900460897	0.900460897	0.178550833	0.198525114	0.177981966	-0.31962055	2521.581339	-0.863253548	
1A	1.000140222	1.000140222	0.198339682	0.198812686	0.198058427	-0.14200605	2521.281193	-0.851247709	
2A	2.00039967	2.00039967	0.39720395	0.198677892	0.396653054	-0.138886235	2518.101431	-0.724057251	
3A	3.00042933	3.00042933	0.595887735	0.198584088	0.595055384	-0.139877828	2517.612928	-0.704517102	
4A	4.01070724	0.040107072	0.796512852	0.198583937	0.795679898	-0.104684534	2517.666369	-0.706654762	
5A	5.00201639	0.050020164	0.993370926	0.196855137	0.983890487	-0.963566458	2517.698203	-0.707928108	
7A	7.01922122	0.035096106	1.39046806	0.198547739	1.392868364	0.172328103	2524.049787	-0.961991461	
9A	9.00545734	0.045027287	1.78483075	0.197936085	1.781722835	-0.174433125	2522.776274	-0.911050978	
11A	10.99829255	0.021996585	2.17928475	0.198471782	2.182068589	0.127577997	2523.372072	-0.934882878	
13A	13.00980585	0.026019612	2.57851338	0.198640981	2.583498464	0.192958659	2522.733826	-0.909353047	
15A	14.9970927	0.029994185	2.97326999	0.198702397	2.97917613	0.198247421	2521.986357	-0.879454274	
18A	18.01986605	0.036039732	3.5739023	0.199020888	3.585547602	0.324784477	2521.035067	-0.841402687	
21A	21.01447675	0.042028954	4.16989238	0.199137826	4.183995078	0.337062971	2519.786464	-0.791458556	
24A	24.02100445	0.048042009	4.76860577	0.200783512	4.822239505	1.112216321	2518.661178	-0.746447111	
27A	27.0080541	0.027008054	5.36835609	0.19890647	5.371294569	0.054707097	2515.486459	-0.619458349	
30A	30.049233	0.030049233	5.97326625	0.199552651	5.995621981	0.372867595	2515.310028	-0.61240113	
35A	35.0233629	0.035023363	6.96586706	0.200068877	7.006302735	0.577132851	2513.927024	-0.557080973	
40A	40.0678895	0.04006789	7.97511983	0.199955343	8.011006443	0.447966348	2512.05564	-0.482225607	
45A	44.9866911	0.044986691	8.95866049	0.199951571	8.99437743	0.397102966	2510.793391	-0.431735638	
50A	49.999818	0.049999818	9.96104309	0.197831622	9.89076296	-0.710563281	2509.768181	-0.390727253	
60A	60.0579492	0.030028975	11.9508595	0.199475664	11.97931716	0.237556602	2512.704178	-0.508167132	
70A	70.094567	0.035047284	13.9529205	0.199345446	13.97225058	0.138346224	2511.824209	-0.472968365	
80A	80.1491378	0.040074569	15.9572534	0.199116463	15.9582307	0.00612412	2511.37009	-0.454803582	
90A	90.1505082	0.045075254	17.9486909	0.198566148	17.90005701	-0.27169688	2511.33937	-0.453574806	
100A	100.0135756	0.050006788	19.9071622	0.182276361	18.22932844	-9.204034972	2511.999817	-0.479992673	
120A	120.2434512	0.030060863	23.5945903	0.196223495	23.59380816	-0.003315008	2548.114836	-1.924593452	

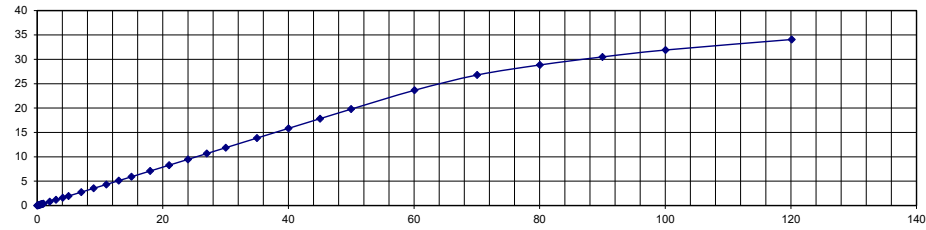
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8450-2500-A
Lot #:	31503
TURNS/RATIO:	2500
DATE:	July 22, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	0
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	2500
FREQUENCY(Hz):	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	0.000829317	0.000829317	0.00027938	0.39143229	-0.000504695	155.3561322	2968.420051	-18.73680202
0.1A	0.100414882	0.100414882	0.039260386	0.389885102	0.03832095	-2.45149446	2557.664175	-2.306566998
0.2A	0.200318294	0.200318294	0.078211238	0.390850382	0.077465165	-0.963107424	2561.24695	-2.449877992
0.3A	0.300065333	0.300065333	0.117197406	0.391743473	0.116719319	-0.409604196	2560.34108	-2.413643183
0.4A	0.400852863	0.400852863	0.156680263	0.392105067	0.156347122	-0.213077861	2558.413264	-2.336530543
0.5A	0.500848898	0.500848898	0.195889215	0.394433463	0.196722249	0.423456723	2556.796698	-2.271867902
0.6A	0.600138927	0.600138927	0.235052525	0.393786169	0.235497092	0.188778109	2553.211998	-2.128479922
0.7A	0.700458065	0.700458065	0.274556814	0.392228856	0.273910549	-0.235940281	2551.231764	-2.049270575
0.8A	0.800316618	0.800316618	0.31372422	0.39292455	0.31363473	-0.028533193	2551.019548	-2.040781933
0.9A	0.900283599	0.900283599	0.353003701	0.393538384	0.353466836	0.131026386	2550.351728	-2.014069139
1A	1.00040722	1.00040722	0.392406189	0.392974002	0.392304712	-0.025866786	2549.417537	-1.976701494
2A	2.00038876	2.00038876	0.785372937	0.389947781	0.779217841	-0.789906977	2547.055884	-1.882235344
3A	3.00078328	3.00078328	1.17547456	0.389707377	1.168598063	-0.588439877	2552.827073	-2.113082907
4A	4.06870266	0.040687027	1.59165062	0.393161549	1.598828123	0.448922758	2556.278752	-2.251150067
5A	5.00764453	0.050076445	1.96080646	0.392944496	1.966897038	0.309654148	2553.869865	-2.154794614
7A	7.01337022	0.035066851	2.74894533	0.394048509	2.762778764	0.500707255	2551.294907	-2.051796279
9A	9.007434	0.04503717	3.53470319	0.393475615	3.543376316	0.244770106	2548.285815	-1.931432608
11A	11.0188573	0.022037715	4.32614921	0.395173343	4.353529362	0.628918508	2547.035889	-1.881435569
13A	13.00057065	0.026001141	5.1092695	0.395700433	5.143502114	0.665550695	2544.506734	-1.780269371
15A	15.0089704	0.030017941	5.90399415	0.396058311	5.943598157	0.666330492	2542.172302	-1.6868892085
18A	18.00159905	0.036003198	7.0892496	0.396612417	7.138828384	0.694494685	2539.281315	-1.571252619
21A	21.0103131	0.042020626	8.28254295	0.396619563	8.332271893	0.596823333	2536.698358	-1.467934314
24A	24.0103132	0.048020626	9.47240168	0.39877511	9.573885966	1.060011431	2534.765101	-1.390604035
27A	27.0178154	0.027017815	10.6717187	0.398035613	10.7532234	0.757956018	2531.721099	-1.268843977
30A	30.0446124	0.030044612	11.8764917	0.397930391	11.95483505	0.655327703	2529.754843	-1.190193734
35A	35.0130487	0.035013049	13.8535835	0.396401888	13.87840929	0.178880665	2527.364035	-1.094561418
40A	40.0289403	0.04002894	15.8418924	0.395808568	15.84296823	0.006790574	2526.777691	-1.071107641
45A	45.0543113	0.045054311	17.8309773	0.394593046	17.77728862	-0.302007158	2526.743798	-1.069751909
50A	50.0008265	0.050008267	19.7828378	0.383766881	19.18783191	-3.100954261	2527.485036	-1.099401422
60A	60.074559	0.03003728	23.6488027	0.314348978	18.8835469	-25.23496152	2540.27909	-1.611163596
70A	70.0488262	0.035024413	26.7842034	0.205934506	14.42464109	-85.68367307	2615.303698	-4.61214792
80A	80.0314738	0.040015737	28.839975	0.165618781	13.2538858	-117.5963746	2775.018834	-11.00075336
90A	90.0127458	0.045006373	30.4930611	0.141248066	12.71329699	-139.8517169	2951.909141	-18.07636564
100A	100.0561562	0.050028078	31.9116734	0.107323312	10.73752872	-197.1975603	3135.409257	-25.4163703
120A	120.1495	0.030037375	34.0681576	0.28354806	34.06732828	-0.002434346	3526.738998	-41.06955992