

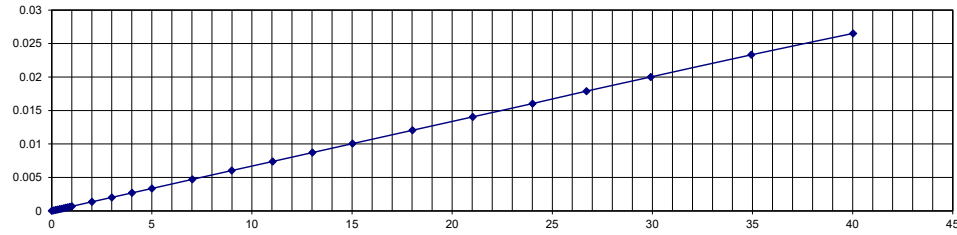
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	1500
FREQUENCY(Hz):	60



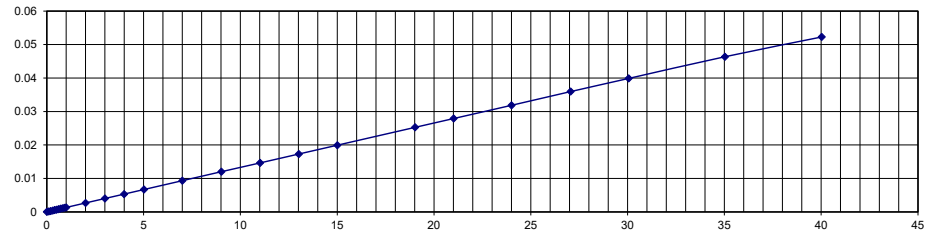
Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000797555	0.000797555	2.37415E-05	0.000615306	-0.000797064	102.9786166	33.59330288	97.76044647
0.1A	0.100501449	0.100501449	8.50899E-05	0.000566086	-0.000740662	111.4883484	1181.121125	21.25859167
0.2A	0.199296966	0.199296966	0.000141017	0.000660473	-0.000665925	121.1760696	1413.286581	5.780894598
0.3A	0.299418479	0.299418479	0.000207144	0.000767396	-0.000567782	136.4830358	1445.459114	3.636059076
0.4A	0.400656743	0.400656743	0.000284834	0.000571851	-0.000568439	150.1081382	1406.632084	6.224527706
0.5A	0.500177293	0.500177293	0.000341745	0.000685975	-0.000454446	175.2004231	1463.597804	2.426813066
0.6A	0.601961746	0.601961746	0.000411567	0.000682414	-0.000386768	206.4118637	1462.610574	2.492628383
0.7A	0.699607284	0.699607284	0.000478201	0.000632145	-0.000355301	234.5903326	1462.997273	2.466848489
0.8A	0.799412738	0.799412738	0.000541293	0.000712226	-0.000181027	399.0125519	1476.857954	1.542803079
0.9A	0.900909339	0.900909339	0.00061957	0.000670827	-0.000193201	420.6867348	1454.088649	3.060756764
1A	1.00355738	1.00355738	0.000688429	0.000669778	-0.000125394	649.0113848	1457.750461	2.816635949
2A	2.00216992	2.00216992	0.001357277	0.000665146	0.00053418	-154.0863415	1475.136793	1.657547112
3A	2.99976573	2.99976573	0.002020824	0.000669443	0.001210618	-66.92500089	1484.42707	1.038195352
4A	4.0074118	0.040074118	0.002695386	0.000661676	0.001854052	-45.37812086	1486.767462	0.882169222
5A	4.99918768	0.049991877	0.00335162	0.000673413	0.002568964	-30.4658162	1491.573683	0.561754472
7A	7.0218169	0.035109085	0.004713685	0.000669775	0.003905485	-20.69397475	1489.666201	0.688919918
9A	8.98858626	0.044942931	0.006030978	0.000664188	0.005172558	-16.59566593	1490.402674	0.63982173
11A	11.02730685	0.022054614	0.007385072	0.000668614	0.006575455	-12.31271889	1493.18871	0.454085997
13A	13.0146834	0.026029367	0.00871386	0.00066729	0.007887008	-10.48371957	1493.56123	0.429251333
15A	15.01963435	0.030039269	0.010051743	0.000666725	0.009216412	-9.063514033	1494.231846	0.384543593
18A	18.0118777	0.036023755	0.012046747	0.000665408	0.011187685	-7.678640411	1495.165317	0.322312195
21A	21.0233548	0.04204671	0.014050606	0.000665247	0.013188164	-6.539520402	1496.259628	0.249358162
24A	24.0081291	0.048016258	0.016036218	0.000689488	0.015755755	-1.78006237	1497.11919	0.192054017
27A	26.7038109	0.026703811	0.017894857	0.000659237	0.016806587	-6.475261923	1492.261757	0.515882857
30A	29.9114275	0.029911427	0.020009437	0.000658615	0.018902547	-5.855771743	1494.866037	0.342264173
35A	34.9395532	0.034939553	0.023321034	0.000629509	0.021197223	-10.01928896	1498.199171	0.120055285
40A	40.0216129	0.040021613	0.026520238	0.000662648	0.025722683	-3.100589777	1509.097049	-0.606469922

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP	
FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	1500
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	0.00074818	0.00074818	2.31815E-05	0.001243927	-0.00074725	103.1022416	64.54980648	95.69667957
0.1A	0.100801791	0.100801791	0.000147641	0.001259645	-0.000621206	123.76682	1365.499556	8.966696281
0.2A	0.198866668	0.198866668	0.000271168	0.001341582	-0.000481384	156.3308156	1466.74254	2.217164001
0.3A	0.3010218	0.3010218	0.000408217	0.001384566	-0.000331396	223.1811348	1474.811696	1.679220247
0.4A	0.401607823	0.401607823	0.000547485	0.001266324	-0.000239615	328.485488	1467.100143	2.193323802
0.5A	0.499264241	0.499264241	0.00067115	0.001399977	-4.92221E-05	1463.512264	1487.78767	0.81415533
0.6A	0.600542029	0.600542029	0.000812936	0.001369273	7.41255E-05	-996.7021529	1477.463767	1.502415545
0.7A	0.700887809	0.700887809	0.000950337	0.001237892	0.000119443	-695.6396646	1475.029811	1.66467926
0.8A	0.801080199	0.801080199	0.001074365	0.001394517	0.00036894	-191.2032423	1491.263317	0.582445519
0.9A	0.900181141	0.900181141	0.001212562	0.001268175	0.000393406	-208.2213383	1484.75835	1.016109996
1A	1.00068566	1.00068566	0.00134002	0.001341028	0.000593767	-125.6809714	1493.538662	0.430755837
2A	2.00115733	2.00115733	0.00268168	0.001331641	0.001916643	-39.91547302	1492.465167	0.502322216
3A	3.00026105	3.00026105	0.004012128	0.001322723	0.003220333	-24.58737562	1495.595819	0.29361209
4A	3.991361	0.03991361	0.005323079	0.001338729	0.004595168	-15.84076971	1499.643862	0.023742527
5A	5.01632661	0.050163266	0.006695229	0.001330507	0.005926078	-12.97909523	1498.477934	0.101471059
7A	6.9980685	0.034990343	0.009331951	0.001332293	0.008575297	-8.823648579	1499.808256	0.012782965
9A	9.01077834	0.045053892	0.01201347	0.001313147	0.011084292	-8.382838457	1500.112514	-0.007500914
11A	11.01793625	0.022035873	0.014649162	0.00132841	0.013888151	-5.479569649	1504.241123	-0.282741535
13A	13.0171821	0.026034364	0.01730498	0.001325559	0.016506856	-4.835103459	1504.443498	-0.296233228
15A	15.00234615	0.030004692	0.019936431	0.001326929	0.019158861	-4.058540218	1505.018255	-0.334550355
18A	19.02256795	0.038045136	0.025270978	0.001322749	0.024413902	-3.510606302	1505.487291	-0.365819376
21A	21.01550195	0.042031004	0.027907129	0.001321654	0.027027052	-3.256283102	1506.102745	-0.406849683
24A	24.00012945	0.048000259	0.031851776	0.001343339	0.031492131	-1.142012484	1506.988485	-0.465898989
27A	27.053888	0.027053888	0.035954009	0.001310542	0.03470707	-3.592750214	1504.916363	-0.327757518
30A	30.0551836	0.030055184	0.039887332	0.001303563	0.038430643	-3.790435223	1507.003958	-0.466930537
35A	35.0285343	0.035028534	0.046370408	0.001181454	0.040636429	-14.11043983	1510.814161	-0.72094406
40A	40.0215213	0.040021521	0.052269393	0.001306032	0.051521213	-1.452179283	1531.35588	-2.090391973

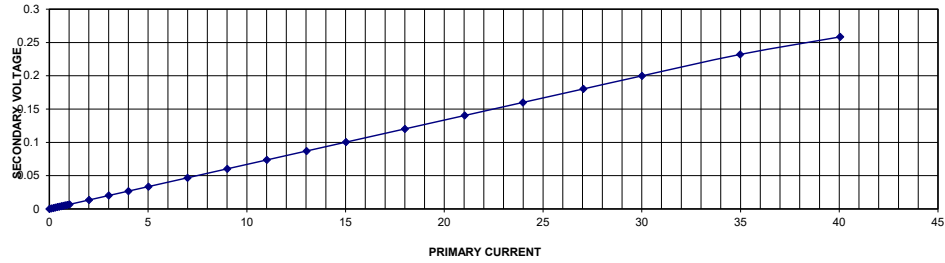
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
TURNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	1500
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	0.00071925	0.00071925	2.39102E-05	0.006584438	-0.000714514	103.3463586	300.8129762	79.94580159
0.1A	0.099882656	0.099882656	0.000676846	0.00678198	-4.18476E-05	1717.407717	1475.708259	1.619449392
0.2A	0.200151728	0.200151728	0.001356868	0.006594726	0.000600696	-125.882672	1475.10054	1.659964002
0.3A	0.30087143	0.30087143	0.002021087	0.006788362	0.001323174	-52.74532891	1488.661286	0.755914268
0.4A	0.400139597	0.400139597	0.002694955	0.00661187	0.001926421	-39.8944004	1484.772568	1.015162101
0.5A	0.499534215	0.499534215	0.00335214	0.006742867	0.002649043	-26.54154731	1490.195067	0.653662183
0.6A	0.601380686	0.601380686	0.004038877	0.006731196	0.003328761	-21.3327247	1488.979972	0.734668503
0.7A	0.701984053	0.701984053	0.004716058	0.006705938	0.003988212	-18.24994314	1488.497532	0.7668312
0.8A	0.801266596	0.801266596	0.00538184	0.006681446	0.004634369	-16.12886001	1488.833804	0.744413066
0.9A	0.902144084	0.902144084	0.006055848	0.006725583	0.005348195	-13.23162151	1489.707308	0.686179499
1A	1.0153412	1.0153412	0.006817164	0.006683816	0.006067104	-12.36273505	1489.389331	0.707377928
2A	2.00087958	2.00087958	0.013404322	0.006701571	0.012689787	-5.630790163	1492.712261	0.485849266
3A	3.00094517	3.00094517	0.020106333	0.006662467	0.019274448	-4.315997193	1492.537324	0.49751175
4A	4.00459023	0.040045902	0.026793084	0.006678329	0.0262024723	-2.952429456	1494.635769	0.357615415
5A	5.01731451	0.050173145	0.033556391	0.00668195	0.032806194	-2.286754271	1495.188966	0.320735627
7A	6.99695782	0.034984789	0.046784268	0.006697643	0.046143878	-1.387811952	1495.579208	0.294719443
9A	9.00513428	0.045025671	0.060234317	0.006656186	0.059220602	-1.711761064	1495.01724	0.332184003
11A	11.00526015	0.02201052	0.073547528	0.006674039	0.072730281	-1.123667818	1496.346713	0.243552442
13A	13.02048265	0.026040965	0.086997201	0.006665743	0.086071936	-1.074990075	1496.655361	0.222975949
15A	15.02153105	0.030043062	0.100335674	0.006661382	0.099344913	-0.99729437	1497.127637	0.191490882
18A	18.00188555	0.036003771	0.120188955	0.006648167	0.118960298	-1.032829339	1497.798658	0.146756136
21A	21.0254036	0.042050807	0.140289809	0.006654183	0.13918764	-0.791858049	1498.712112	0.085859171
24A	23.9807571	0.047961514	0.159955273	0.006618345	0.157993677	-1.241565854	1499.216415	0.052238978
27A	27.043719	0.027043719	0.180227012	0.006626036	0.178473415	-0.982553512	1500.53639	-0.035759346
30A	30.0050129	0.030005013	0.199848653	0.006470436	0.193426262	-3.320330404	1501.386797	-0.092453129
35A	34.9744775	0.034974478	0.232003255	0.00520291	0.181249806	-28.00193264	1507.499431	-0.499962095
40A	40.0433671	0.040043367	0.258376231	0.00645241	0.257656981	-0.279150099	1549.808469	-3.320564602

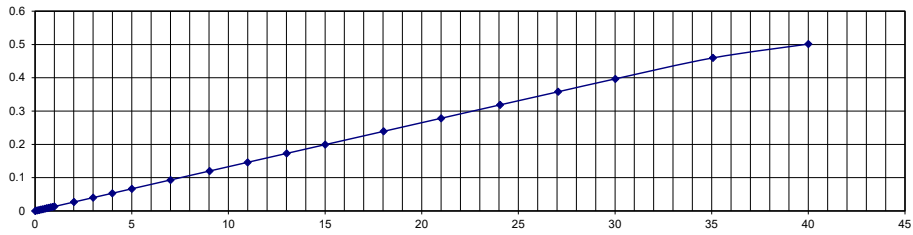
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	1500
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	0.000718177	0.000718177	2.32519E-05	0.013234408	-0.000708672	103.2810576	617.7349159	58.81767228
0.1A	0.099856632	0.099856632	0.001335291	0.013363111	0.000616219	-116.6911059	1495.653773	0.289748481
0.2A	0.200264695	0.200264695	0.002677055	0.013304587	0.001946262	-37.54851619	1496.156842	0.256210541
0.3A	0.300463097	0.300463097	0.004010153	0.013284868	0.003273436	-22.50592889	1498.511835	0.099211008
0.4A	0.400523636	0.400523636	0.005339444	0.013270868	0.00459712	-16.14760523	1500.244665	-0.016310998
0.5A	0.501570534	0.501570534	0.006680424	0.013409113	0.006007439	-11.20252569	1501.612815	-0.107521015
0.6A	0.601192243	0.601192243	0.008016263	0.013300255	0.007277833	-10.146287	1499.931429	0.004571415
0.7A	0.700738465	0.700738465	0.009340253	0.013296458	0.008599163	-8.618167047	1500.469966	-0.031331092
0.8A	0.800051076	0.800051076	0.010660759	0.013278143	0.009905016	-7.629900682	1500.927032	-0.061802166
0.9A	0.902206088	0.902206088	0.012017188	0.013276846	0.011260275	-6.721979504	1501.526127	-0.101741827
1A	0.99964685	0.99964685	0.013310894	0.013317845	0.012594965	-5.684244009	1501.998063	-0.133204176
2A	2.00234497	2.00234497	0.026664673	0.01329943	0.025911871	-2.905237921	1501.871039	-0.124735953
3A	3.00141818	3.00141818	0.039951777	0.013227148	0.038982025	-2.487691218	1502.520484	-0.168032241
4A	3.99399107	0.039939911	0.053080685	0.013290133	0.052362496	-1.371572806	1504.87547	-0.325031347
5A	5.00279802	0.05002798	0.066487864	0.01329266	0.065782316	-1.072549747	1504.875545	-0.325036311
7A	7.0041111	0.035020556	0.093090638	0.013275316	0.092263611	-0.89637359	1504.793876	-0.319591751
9A	9.0220077	0.045110039	0.119878853	0.013254323	0.11886243	-0.855125288	1505.187525	-0.345834974
11A	10.9915428	0.021983086	0.145983708	0.013258308	0.14501108	-0.670726721	1505.858832	-0.390588791
13A	13.0141185	0.026028237	0.172799639	0.013227978	0.171432299	-0.797597851	1506.266862	-0.417790803
15A	15.00352895	0.030007058	0.199115517	0.01320647	0.197425476	-0.856040128	1507.017552	-0.467836802
18A	18.0275061	0.036055012	0.23905158	0.013207311	0.237376712	-0.705574033	1508.252411	-0.550160764
21A	21.00040585	0.042000812	0.278315593	0.013186182	0.276197002	-0.767058091	1509.107386	-0.607159058
24A	24.0517431	0.048103486	0.318551082	0.013111231	0.31462978	-1.246322475	1510.071349	-0.671423241
27A	27.0580555	0.027058056	0.357967538	0.013109948	0.354011512	-1.117485097	1511.760293	-0.784019509
30A	30.0147658	0.030014766	0.396729855	0.012475138	0.373720167	-6.156929713	1513.1085	-0.873900033
35A	35.0646298	0.03506463	0.459727605	0.008411546	0.29422957	-56.24792762	1525.452438	-1.69682922
40A	40.001746	0.040001746	0.501256385	0.012530863	0.500538208	-0.1434809	1596.05931	-6.403954003

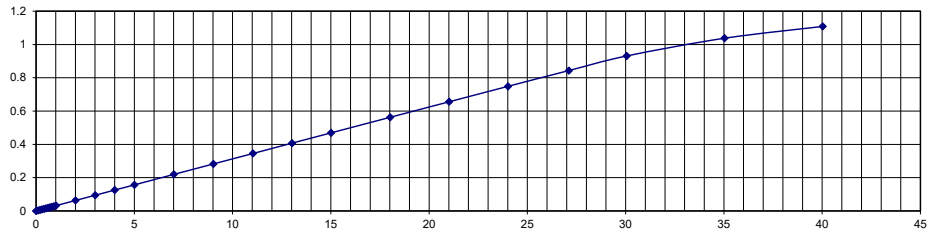
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	1500
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	0.000701161	0.000701161	3.11751E-05	0.031423185	-0.000679128	104.5904639	1057.078434	29.52810441
0.1A	0.10051856	0.10051856	0.003167756	0.031281563	0.002443217	-29.65513369	1491.394155	0.573723011
0.2A	0.200742307	0.200742307	0.006302911	0.031355697	0.005593254	-12.68773822	1496.909635	0.206024333
0.3A	0.298381366	0.298381366	0.009364452	0.031362747	0.008656898	-8.173293139	1497.570217	0.161985548
0.4A	0.399628203	0.399628203	0.012539831	0.031363358	0.011832521	-5.977675529	1497.829264	0.144715717
0.5A	0.499724575	0.499724575	0.015679189	0.031373429	0.014976912	-4.689061699	1497.976386	0.134907593
0.6A	0.602642872	0.602642872	0.018908089	0.031333762	0.018181907	-3.993981675	1497.994588	0.13369416
0.7A	0.70214968	0.70214968	0.022026012	0.03140483	0.02134973	-3.167634184	1498.275564	0.114962378
0.8A	0.802553847	0.802553847	0.025179187	0.031381879	0.024484487	-2.837310366	1498.063866	0.129075627
0.9A	0.900991452	0.900991452	0.028268344	0.031385454	0.027576865	-2.507463696	1498.021874	0.131875088
1A	1.00759223	1.00759223	0.031614058	0.031358478	0.030895398	-2.326107389	1497.967598	0.135493498
2A	2.0056238	2.0056238	0.062752091	0.031353622	0.062023716	-1.174349761	1498.379258	0.108049456
3A	3.00149783	3.00149783	0.094135043	0.031175656	0.092872503	-1.359433178	1498.595989	0.093600736
4A	3.997532	0.03997532	0.125187062	0.031280628	0.124344149	-0.677886882	1500.826052	-0.055070121
5A	5.00520046	0.050052005	0.156707564	0.031301833	0.15597079	-0.472379608	1501.168263	-0.077884188
7A	7.01017714	0.035050886	0.21946701	0.03127368	0.218532873	-0.427458309	1501.265842	-0.084389473
9A	9.02394708	0.045119735	0.282445006	0.031146054	0.280359182	-0.743982682	1501.621568	-0.108104528
11A	11.03660515	0.02207321	0.345131363	0.031274233	0.344460203	-0.194844121	1502.965241	-0.197682711
13A	13.01712325	0.026034247	0.407070548	0.031062666	0.40364539	-0.848556166	1502.945364	-0.196357569
15A	15.0085162	0.030017032	0.468928522	0.03113169	0.466539306	-0.512114535	1504.28099	-0.285399346
18A	18.0106928	0.036021386	0.562391352	0.031053792	0.558599145	-0.678878092	1505.184172	-0.345611479
21A	21.0130788	0.042026158	0.655626822	0.030976693	0.650214537	-0.832384484	1506.367144	-0.424476288
24A	24.01497445	0.048029949	0.748615623	0.030611565	0.734434786	-1.930850466	1507.721405	-0.514760354
27A	27.1069534	0.027106953	0.843265937	0.029818617	0.807590702	-4.417489544	1510.824467	-0.721631133
30A	30.0490108	0.030049011	0.93099402	0.021393064	0.642139261	-44.98319544	1516.98451	-1.132300692
35A	35.026854	0.035026854	1.03748534	0.01416211	0.495352985	-109.4436435	1586.781109	-5.785407242
40A	40.0238108	0.040023811	1.10825279	0.027689837	1.107551629	-0.063307308	1697.373672	-13.1582448

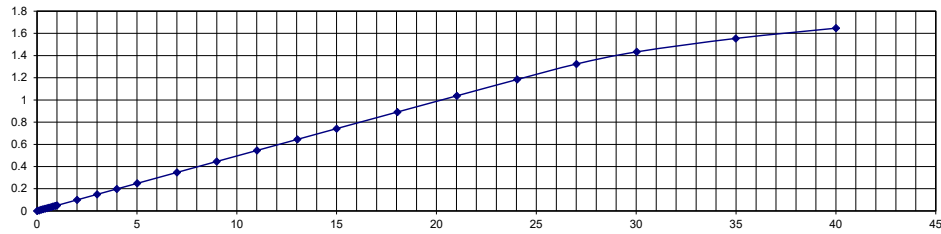
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	1500
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	0.000676994	0.000676994	3.63708E-05	0.049687768	-0.000643356	105.6532988	1396.024373	6.931708465
0.1A	0.102069016	0.102069016	0.005074314	0.049667748	0.004392544	-15.52108221	1508.613006	-0.574200367
0.2A	0.20084572	0.20084572	0.009980331	0.04967177	0.009299368	-7.322675623	1509.311631	-0.620775431
0.3A	0.294985778	0.294985778	0.014656434	0.049652672	0.013969838	-4.914847362	1509.503164	-0.633544289
0.4A	0.399434835	0.399434835	0.019842609	0.049675772	0.019165239	-3.534364382	1509.7618	-0.650786658
0.5A	0.502002924	0.502002924	0.024937758	0.049648101	0.024246498	-2.850968886	1509.767628	-0.651175226
0.6A	0.601670552	0.601670552	0.029886066	0.049650938	0.029196513	-2.361767076	1509.910709	-0.660713922
0.7A	0.699495905	0.699495905	0.034743187	0.049713856	0.034097644	-1.89321654	1509.999452	-0.666630128
0.8A	0.799793948	0.799793948	0.039729389	0.049643566	0.039027629	-1.798111444	1509.828047	-0.655203126
0.9A	0.902113367	0.902113367	0.044808889	0.049599158	0.044067069	-1.683391343	1509.934804	-0.662320245
1A	0.999567429	0.999567429	0.049642529	0.049688279	0.048989791	-1.332396339	1510.147812	-0.676520826
2A	2.00055788	2.00055788	0.099380023	0.049599169	0.098549014	-0.84324352	1509.778697	-0.651913114
3A	3.00142197	3.00142197	0.14902205	0.04936505	0.147488352	-1.039877696	1510.559328	-0.70395522
4A	3.99118829	0.039911883	0.197881914	0.049520116	0.196967114	-0.464443131	1512.715921	-0.847728055
5A	5.01003616	0.050100362	0.248335379	0.049455579	0.247097242	-0.501072715	1513.085705	-0.87238033
7A	7.00213604	0.03501068	0.346855831	0.049564705	0.346381811	-0.136849068	1514.05903	-0.93726866
9A	8.9951188	0.044975594	0.445637433	0.049302387	0.442803832	-0.639922502	1513.86275	-0.92418336
11A	11.0095029	0.022019006	0.544951377	0.049295406	0.54204092	-0.536944202	1515.204388	-1.013625845
13A	13.03369455	0.026067389	0.644734726	0.049369255	0.642786802	-0.303043621	1516.169444	-1.077962954
15A	14.99685865	0.029993717	0.741654676	0.049179192	0.736856403	-0.651181547	1516.560787	-1.104052434
18A	18.03852045	0.036077041	0.891241147	0.049008773	0.883368763	-0.89117753	1517.983139	-1.19887592
21A	21.02070575	0.042041412	1.03739439	0.048655569	1.022097408	-1.496626595	1519.723787	-1.31491915
24A	24.03867435	0.048077349	1.18423537	0.047100863	1.131565311	-4.654619411	1522.417437	-1.494495769
27A	27.0034833	0.027003483	1.32388043	0.036252209	0.978258933	-35.33026735	1529.791665	-1.986111012
30A	30.0211518	0.030021152	1.43327758	0.024451776	0.733393473	-95.43091571	1570.935328	-4.729021855
35A	34.9801614	0.034980161	1.55453417	0.018361149	0.641598976	-142.2906252	1687.651617	-12.51010777
40A	39.9993243	0.039999324	1.64669177	0.04116799	1.646014776	-0.041129307	1821.803799	-21.45358661

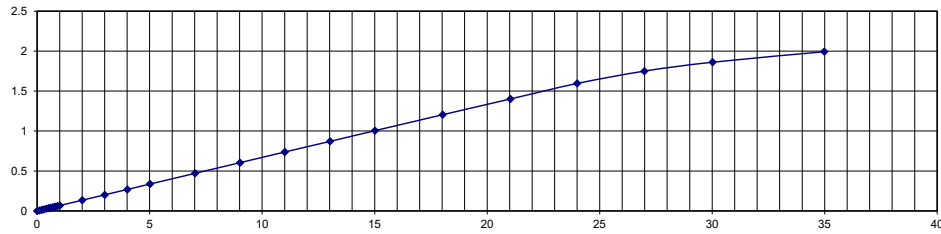
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	100
MEASUREMENT CT TURNS RATIO:	1500
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	0.000778483	0.000778483	5.16016E-05	0.06731712	-0.000726078	107.1068984	1508.640936	-0.576062433
0.1A	0.100521875	0.100521875	0.006766039	0.067133	0.005969852	-13.33680019	1485.682657	0.954489505
0.2A	0.201321614	0.201321614	0.013533028	0.067259246	0.012762257	-6.039458212	1487.631663	0.824555777
0.3A	0.300481953	0.300481953	0.020202478	0.067180247	0.019407969	-4.093725043	1487.35197	0.843202011
0.4A	0.401585599	0.401585599	0.026994646	0.067144348	0.02618572	-3.089185789	1487.649077	0.823394887
0.5A	0.500801419	0.500801419	0.033656427	0.067215259	0.032883014	-2.352013279	1487.981521	0.801231904
0.6A	0.599816611	0.599816611	0.040311759	0.06718328	0.039519165	-2.00594728	1487.944521	0.803698575
0.7A	0.700429943	0.700429943	0.047071293	0.067190621	0.04628384	-1.701355642	1488.019345	0.798710306
0.8A	0.800995955	0.800995955	0.053828386	0.067213861	0.053059548	-1.449008358	1488.054947	0.796336843
0.9A	0.900501241	0.900501241	0.06051652	0.067267966	0.059796404	-1.204279325	1488.025484	0.79830108
1A	1.00426293	1.00426293	0.067496358	0.067190952	0.0666989	-1.195608751	1487.877215	0.808185681
2A	2.00212981	2.00212981	0.134543984	0.067074828	0.133514029	-0.771420682	1488.085718	0.794285483
3A	2.9998155	2.9998155	0.20146801	0.066907503	0.199936101	-0.76619929	1489.011357	0.732576187
4A	4.00774445	0.040077445	0.2689016	0.067080285	0.268062158	-0.313151888	1490.413017	0.639132183
5A	5.00857302	0.05008573	0.336037466	0.06696809	0.334636086	-0.418777227	1490.480535	0.634631021
7A	7.01964014	0.035098201	0.47071479	0.066884374	0.468725753	-0.424349883	1491.272484	0.58183442
9A	9.01445542	0.045072277	0.604136761	0.067004252	0.603228357	-0.150590413	1492.121652	0.525223184
11A	11.00465535	0.022009311	0.737488618	0.066249388	0.728273204	-1.265378733	1492.179687	0.521354216
13A	13.01803605	0.026036072	0.870873858	0.067067132	0.872303862	0.163934113	1494.824529	0.34503137
15A	15.01097175	0.030021944	1.00453434	0.06631003	0.994599498	-0.99887869	1494.321414	0.378572424
18A	18.02236145	0.036044723	1.20421968	0.065515626	1.179967811	-2.055299242	1496.600807	0.226612861
21A	21.0319975	0.042063995	1.40139787	0.065339015	1.373431521	-2.036239045	1500.787032	-0.052468802
24A	23.9952601	0.04799052	1.59501453	0.051823996	1.242751769	-28.34538399	1504.391317	-0.292754491
27A	26.9810295	0.02698103	1.74974903	0.036755242	0.990915791	-76.57898336	1541.994254	-2.799616926
30A	30.0173572	0.030017357	1.86134999	0.02652537	0.795443027	-134.001673	1612.665934	-7.511062262
35A	34.9803986	0.034980399	1.9929965	0.056974665	1.992218017	-0.039076184	1755.166083	-17.01107219

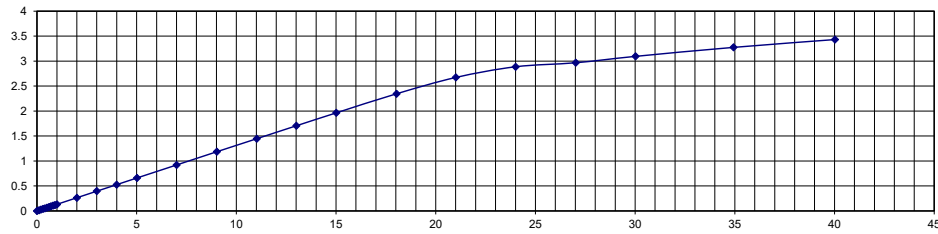
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
TURNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	1500
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	0.000739678	0.000739678	8.74462E-05	0.132128965	-0.000641945	113.6220617	1691.73353	-12.78223534
0.1A	0.100671947	0.100671947	0.013291393	0.132032338	0.012552274	-5.888329086	1514.84414	-0.989609311
0.2A	0.200251298	0.200251298	0.026439088	0.132014625	0.025696422	-2.890154283	1514.812453	-0.987496875
0.3A	0.299955999	0.299955999	0.039601567	0.131950322	0.038839612	-1.961796467	1514.869359	-0.991290582
0.4A	0.400218715	0.400218715	0.052831264	0.132163087	0.052154462	-1.297687472	1515.08286	-1.005523984
0.5A	0.499542727	0.499542727	0.065958232	0.131902598	0.065151305	-1.238543075	1514.724424	-0.981628238
0.6A	0.600358713	0.600358713	0.079256123	0.132003254	0.078509626	-0.950835333	1514.983806	-0.998920427
0.7A	0.700204784	0.700204784	0.092436129	0.132002171	0.091688873	-0.814990702	1515.002393	-1.000159543
0.8A	0.799695003	0.799695003	0.105569054	0.132087027	0.104889657	-0.647725307	1515.017844	-1.00118961
0.9A	0.899562479	0.899562479	0.118760252	0.131637518	0.117676493	-0.92096433	1514.921809	-0.994787268
1A	0.99997206	0.99997206	0.13197792	0.131872131	0.131128768	-0.647570949	1515.362661	-1.024177378
2A	2.00179842	2.00179842	0.264090897	0.131815248	0.263127876	-0.365989556	1515.991988	-1.066132545
3A	3.0005825	3.0005825	0.395745868	0.130898398	0.392031764	-0.947398798	1516.418865	-1.094591003
4A	3.99465336	0.039946534	0.525868151	0.131781101	0.525680138	-0.0357656	1519.260428	-1.284028513
5A	5.01427522	0.050142752	0.660235042	0.130898682	0.655622338	-0.70356119	1518.936409	-1.262427288
7A	6.9999756	0.034999878	0.920160604	0.131321001	0.918504123	-0.18034555	1521.468224	-1.431214936
9A	9.02199656	0.045109983	1.18569442	0.130134791	1.17333596	-1.053275466	1521.808049	-1.453869933
11A	11.0231495	0.022046299	1.44611404	0.130611649	1.439012056	-0.493531948	1524.520086	-1.634672371
13A	13.0083663	0.026016733	1.70540648	0.129087536	1.678478271	-1.604322749	1525.544373	-1.70295823
15A	15.00618645	0.030012373	1.96330016	0.126440627	1.89665195	-3.513992669	1528.66961	-1.911307337
18A	18.0349374	0.036069875	2.34625733	0.109973779	1.982630536	-18.34062312	1537.336691	-2.489112735
21A	21.00509505	0.04201019	2.67289679	0.071454277	1.500164208	-78.17361436	1571.710148	-4.780676548
24A	24.00080025	0.048001601	2.88695274	0.02666086	0.639142304	-351.6917004	1662.708219	-10.84721463
27A	27.0214976	0.027021498	2.96748713	0.042653624	1.151825121	-157.633479	1821.170331	-21.41135543
30A	30.0201108	0.030020111	3.09538885	0.036590583	1.097713663	-181.985089	1939.666533	-29.31110222
35A	34.9294691	0.034929469	3.27502513	0.03080136	1.075135475	-204.6151119	2133.080982	-42.20539879
40A	40.0227416	0.040022742	3.43190485	0.08574887	3.431165172	-0.021557642	2332.392263	-55.49281754

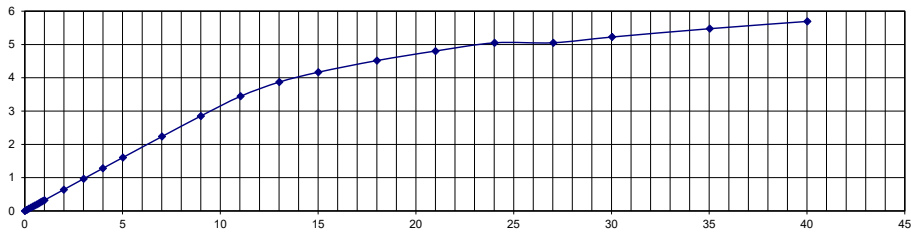
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	1500
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	0.000711236	0.000711236	0.000203978	0.320999136	-0.00048293	142.2376434	1743.411866	-16.22745772
0.1A	0.099992916	0.099992916	0.032073312	0.321167451	0.031403234	-2.133786548	1558.818078	-3.921205201
0.2A	0.200711055	0.200711055	0.0644207	0.32138123	0.063793529	-0.983125016	1557.814928	-3.854328524
0.3A	0.300980436	0.300980436	0.096645397	0.321542042	0.096066628	-0.602466138	1557.137984	-3.809198916
0.4A	0.401019374	0.401019374	0.128812121	0.320780175	0.127927829	-0.691243128	1556.605741	-3.773716036
0.5A	0.500661894	0.500661894	0.160775466	0.321023014	0.160012754	-0.476657168	1557.022058	-3.801470555
0.6A	0.601228413	0.601228413	0.193059633	0.321407644	0.192528171	-0.276043637	1557.105449	-3.807029924
0.7A	0.700267996	0.700267996	0.224891712	0.320573773	0.223776317	-0.498441717	1556.900407	-3.793360483
0.8A	0.801102324	0.801102324	0.257216553	0.321344526	0.25671861	-0.193964395	1557.252663	-3.816844167
0.9A	0.900005045	0.900005045	0.288998401	0.320690478	0.287911812	-0.377403576	1557.110769	-3.807384618
1A	1.00026404	1.00026404	0.321150506	0.321197515	0.320571087	-0.180745792	1557.313505	-3.820900306
2A	1.99308138	1.99308138	0.640040968	0.320853333	0.638775567	-0.198097833	1556.995161	-3.799677398
3A	3.0099313	3.0099313	0.966300654	0.319015583	0.959503752	-0.70837683	1557.450721	-3.830048048
4A	3.9932299	0.039932299	1.27998823	0.317387288	1.266689174	-1.049906828	1559.869773	-3.991318212
5A	5.01076435	0.050107644	1.60294073	0.315007155	1.577715385	-1.598852666	1562.99115	-4.199410001
7A	7.01589998	0.0350795	2.2345728	0.310310848	2.176398636	-2.67295534	1569.852631	-4.656842089
9A	8.99706272	0.044985314	2.84934909	0.292009887	2.62652003	-8.483813472	1578.792636	-5.252842384
11A	11.03490105	0.022069802	3.44441803	0.215324525	2.37537359	-45.00531806	1601.852759	-6.790183943
13A	13.01539115	0.026030782	3.87086612	0.148359515	1.930245887	-100.5374624	1681.198826	-12.07992171
15A	15.01289235	0.030025785	4.16721443	0.116599824	1.749789375	-138.1552026	1801.310276	-20.08735173
18A	18.00378665	0.036007573	4.51595218	0.095801503	1.724078591	-161.9342415	1993.354439	-32.89029594
21A	20.99876345	0.041997527	4.80287546	0.081524075	1.71119353	-180.6740077	2186.061623	-45.73744156
24A	24.01889045	0.048037781	5.04908852	0.001023114	0.023862831	-21058.79936	2378.53727	-58.56915134
27A	27.0286132	0.027028613	5.05216781	0.05715911	1.544220235	-227.1662743	2674.952042	-78.33013613
30A	30.030485	0.030030485	5.22375213	0.050071956	1.502973899	-247.5610676	2874.41711	-91.62780732
35A	35.0223271	0.035022327	5.47370343	0.043937168	1.538070637	-255.8811474	3199.143646	-113.2762431
40A	40.0150517	0.040015052	5.69306961	0.142273204	5.692358374	-0.01249458	3514.365223	-134.2910149

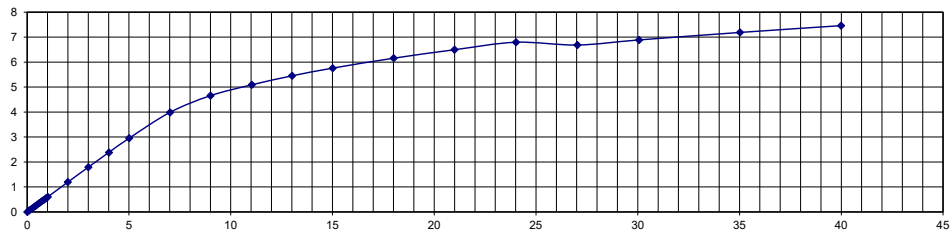
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR3109-1500
Lot #:	31513
URNS/RATIO:	1500
DATE:	July 2, 2020
TESTER:	LB

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	30
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	1500
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	0.000699783	0.000699783	0.000427593	0.5938826	-0.000284194	250.4581327	1636.563028	-9.104201866
0.1A	0.101439248	0.101439248	0.060255009	0.595062987	0.059662959	-0.992323232	1683.499024	-12.23326827
0.2A	0.200081304	0.200081304	0.118953245	0.596028087	0.118554294	-0.336513293	1682.016359	-12.13442391
0.3A	0.299911185	0.299911185	0.178454658	0.596464738	0.178186664	-0.150400944	1680.601607	-12.04010713
0.4A	0.401029803	0.401029803	0.238768348	0.597511079	0.238919968	0.063460408	1679.576905	-11.97179368
0.5A	0.500701359	0.500701359	0.298323207	0.59755376	0.298496197	0.057953824	1678.385547	-11.89236981
0.6A	0.59870426	0.59870426	0.356885209	0.598450809	0.357595266	0.198564458	1677.582161	-11.83881071
0.7A	0.70134624	0.70134624	0.418311385	0.598562372	0.419099686	0.188093881	1676.612842	-11.77418946
0.8A	0.800896858	0.800896858	0.477898639	0.59661846	0.477130067	-0.161082191	1675.871812	-11.72478745
0.9A	0.90043264	0.90043264	0.537283524	0.600942271	0.540408253	0.578216311	1675.898478	-11.72856518
1A	1.00235874	1.00235874	0.598535226	0.599095137	0.599808464	0.212274086	1674.686295	-11.64575299
2A	1.99502404	1.99502404	1.19323618	0.594168793	1.184681243	-0.722129837	1671.943973	-11.46293156
3A	3.00045707	3.00045707	1.79063311	0.585569404	1.756276076	-1.956243358	1675.640338	-11.70935588
4A	4.01162211	0.040116221	2.38274042	0.571629634	2.292462297	-3.938041774	1683.61693	-12.24112864
5A	5.00794131	0.050079413	2.952266	0.516046328	2.58362994	-14.26814477	1696.304232	-13.0869488
7A	7.01348772	0.035067439	3.98722086	0.336221747	2.357387314	-69.13728331	1758.99153	-17.26610198
9A	9.0030824	0.045015412	4.65616586	0.214497347	1.93043751	-141.1974403	1933.582838	-28.90552257
11A	11.03008495	0.02206017	5.09095253	0.181221735	1.998191344	-154.7780294	2166.605343	-44.44035617
13A	13.01282825	0.026025657	5.45026871	0.154901271	2.015003848	-170.484283	2387.557191	-59.17047938
15A	15.00927075	0.030018542	5.75952019	0.132725146	1.991407864	-189.2185119	2605.993252	-73.73288347
18A	18.00524855	0.036010497	6.15716178	0.113118663	2.036029851	-202.4101919	2924.27732	-94.95182135
21A	20.99615635	0.041992313	6.49548927	0.099616271	2.090859023	-210.6612736	3232.421066	-115.4947377
24A	24.01232335	0.048024647	6.79594858	-0.036701793	-0.881995116	870.519979	3533.329169	-135.5552779
27A	27.0300598	0.02703006	6.68519224	0.06714172	1.814144916	-268.5037607	4043.273376	-169.5515584
30A	30.0575463	0.030057546	6.88846289	0.060481894	1.817237535	-279.0623271	4363.462035	-190.897469
35A	35.0205088	0.035020509	7.18863226	0.054699939	1.914919902	-275.4011985	4871.651176	-224.776745
40A	39.9851959	0.039985196	7.46020034	0.18657406	7.459500557	-0.009381095	5359.801892	-257.3201262