

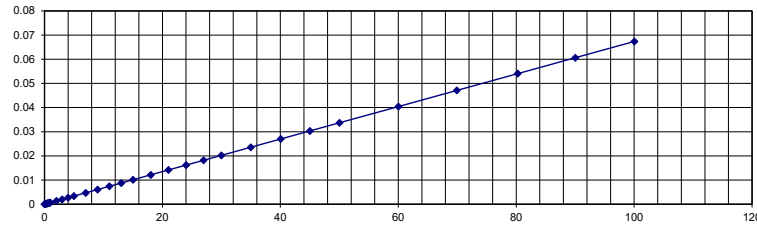
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.000605271	0.000605271	2.69109E-05	0.000526616	-0.000604952	104.4484342	22.49166422	98.50055572
0.1A	0.100030001	0.100030001	7.92695E-05	0.000616721	-0.00054358	114.5828629	1261.897275	15.873515
0.2A	0.200004615	0.200004615	0.000140926	0.000744653	-0.000456336	130.8820238	1419.217939	5.385470744
0.3A	0.301072433	0.301072433	0.000216186	0.000595089	-0.000428106	150.735387	1392.651863	7.156542498
0.4A	0.40014672	0.40014672	0.000275144	0.000726402	-0.000314603	187.4576314	1454.315292	3.045647215
0.5A	0.500140826	0.500140826	0.00034778	0.00059434	-0.000308017	212.9095713	1438.093954	4.127069704
0.6A	0.600242819	0.600242819	0.000407275	0.000718361	-0.000174079	333.9593737	1473.802247	1.746516865
0.7A	0.700391947	0.700391947	0.000479218	0.000720839	-0.000100401	577.3054526	1461.530165	2.564655666
0.8A	0.799860796	0.799860796	0.000550919	0.000592137	-0.000131644	518.4929912	1451.865661	3.208955961
0.9A	0.903161702	0.903161702	0.000612088	0.000658882	-1.0194E-05	6104.419532	1475.54333	1.630444643
1A	0.996952682	0.996952682	0.000673885	0.000678905	7.15661E-05	-841.6259598	1479.41136	1.372575999
2A	2.02188269	2.02188269	0.001369715	0.000674271	0.000758027	-80.69490017	1476.133526	1.591098275
3A	3.00195639	3.00195639	0.002030551	0.000669682	0.001405087	-44.51424315	1478.395184	1.440321084
4A	4.00035863	0.040003586	0.002699163	0.000677168	0.002103643	-28.30896669	1482.073662	1.195089172
5A	5.00584269	0.050058427	0.003380045	0.000673813	0.002767733	-22.12323907	1480.999014	1.266732405
7A	7.00338848	0.035016942	0.004726017	0.000675328	0.004124316	-14.58912449	1481.879544	1.2080304
9A	9.00603656	0.045030183	0.006078462	0.000671162	0.005439241	-11.75203262	1481.630737	1.224617561
11A	11.00813	0.02201626	0.007422192	0.000674871	0.006823794	-8.769290215	1483.137373	1.124175166
13A	13.00859675	0.026017194	0.008772248	0.000675129	0.008177214	-7.276739339	1482.926222	1.138251853
15A	15.01845855	0.030036917	0.010129165	0.000674994	0.009532096	-6.263773863	1482.694688	1.153687442
18A	18.0227973	0.036045595	0.012157075	0.000674107	0.011544022	-5.310559594	1482.494588	1.167027469
21A	21.03600535	0.042072011	0.014188299	0.000672953	0.013550963	-4.703254176	1482.630525	1.157964969
24A	24.0308587	0.048061717	0.016203693	0.000669064	0.015472914	-4.722958214	1483.048232	1.130117868
27A	26.988506	0.026988506	0.018182549	0.000675083	0.017614199	-3.226658974	1484.308176	1.046121574
30A	30.0137156	0.030013716	0.020224815	0.000674535	0.019640026	-2.977539696	1484.00445	1.066370029
35A	34.9961496	0.03499615	0.02358564	0.000674098	0.022985577	-2.610606754	1483.790525	1.080631676
40A	40.0629112	0.040062911	0.027001136	0.00067375	0.026387133	-2.326902289	1483.749093	1.083393796
45A	45.0201264	0.045020126	0.030341062	0.000673237	0.029703943	-2.144896826	1483.801932	1.079871232
50A	50.032632	0.050032632	0.033715666	0.000671081	0.032970694	-2.259498021	1483.957987	1.069467526
60A	60.03493	0.030017465	0.040428021	0.00067393	0.039854065	-1.440144408	1484.983136	1.001124268
70A	69.9311402	0.03496557	0.047097374	0.000672739	0.04644015	-1.415206029	1484.820381	1.011974618
80A	80.2711426	0.040135571	0.054053499	0.000674935	0.05357253	-0.897790719	1485.031395	0.997906974
90A	90.0214306	0.045010715	0.060634309	0.000672868	0.059967312	-1.112268157	1484.661609	1.022559413
100A	100.0360412	0.050018021	0.067372825	0.000673486	0.066767554	-0.906534	1484.812932	1.012471231

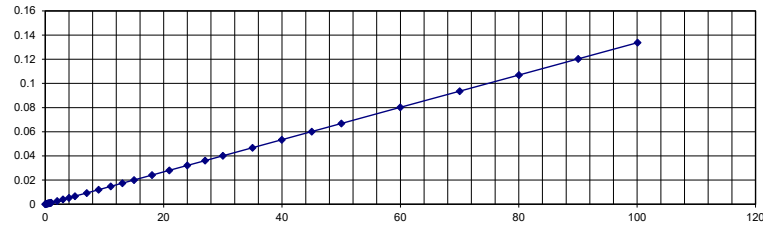
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	1500
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	0.000460445	0.000460445	2.95073E-05	0.001105847	-0.000459936	106.4155327	31.20885282	97.91940981
0.1A	0.100397645	0.100397645	0.000140023	0.00136914	-0.000322987	143.3524703	1434.020283	4.398647831
0.2A	0.200199448	0.200199448	0.000276665	0.001362467	-0.00018768	247.4135001	1447.23198	3.517867992
0.3A	0.300599555	0.300599555	0.000413457	0.001326484	-6.17045E-05	770.0605318	1454.078264	3.061449093
0.4A	0.400593837	0.400593837	0.000546098	0.001282458	5.32996E-05	-924.5809954	1467.113327	2.19244489
0.5A	0.500538524	0.500538524	0.000674273	0.001294902	0.000187703	-259.2227981	1484.676507	1.021566183
0.6A	0.601034792	0.601034792	0.000804406	0.001341096	0.000345601	-132.7558817	1494.357481	0.376167966
0.7A	0.699328106	0.699328106	0.000936226	0.001355177	0.000487268	-92.13779772	1493.929407	0.404706187
0.8A	0.800095261	0.800095261	0.001072784	0.001360888	0.000628395	-70.71796347	1491.624497	0.558366835
0.9A	0.901153138	0.901153138	0.001210312	0.001379083	0.00078232	-54.70801277	1489.125051	0.724996606
1A	0.999865059	0.999865059	0.001346444	0.00132949	0.000688866	-54.96576016	1485.193447	0.987103506
2A	2.0224093	2.0224093	0.002705907	0.001338265	0.002246074	-20.47270871	1494.810893	0.345940499
3A	3.00131205	3.00131205	0.004015938	0.001310541	0.003472899	-15.63648322	1494.700499	0.353300052
4A	4.00714343	0.040071434	0.005334121	0.001340561	0.004911376	-8.607475177	1502.456805	-0.163786989
5A	5.01166967	0.050116697	0.00668075	0.001323967	0.006174839	-8.193108078	1500.331413	-0.022094175
7A	7.0115888	0.035057944	0.009328577	0.001332119	0.008879823	-5.053627701	1503.24945	-0.216630013
9A	9.00491116	0.045024556	0.011983919	0.001359617	0.011782785	-1.707007641	1502.83251	-0.188834006
11A	11.0520614	0.022104123	0.014767259	0.001339633	0.014345262	-2.94171749	1496.83317	0.211122008
13A	13.0255737	0.026051147	0.017411041	0.001347279	0.017088638	-1.886653903	1496.242944	0.250470375
15A	15.0059635	0.030011927	0.020079179	0.00133638	0.019593223	-2.480224929	1494.679005	0.354732967
18A	18.04434865	0.036088697	0.024139616	0.001342998	0.023773078	-1.541818721	1494.998839	0.333410722
21A	20.9612364	0.041922473	0.02805699	0.001331816	0.027456072	-2.188650498	1494.189972	0.387335209
24A	23.99211705	0.047984234	0.032093566	0.00132026	0.03121538	-2.813311316	1495.135623	0.324291789
27A	27.0150879	0.027015088	0.036084673	0.00133626	0.035638734	-1.251274462	1497.316495	0.178900334
30A	30.0206747	0.030020675	0.040100918	0.001335996	0.039647062	-1.144741809	1497.256232	0.182917841
35A	35.0086589	0.035008659	0.046764846	0.00133599	0.04631076	-0.980518611	1497.221184	0.185254398
40A	39.976959	0.039976959	0.053402443	0.001336525	0.052969771	-0.816829129	1497.195881	0.18694126
45A	45.0375957	0.045037596	0.060166112	0.001336597	0.059736661	-0.718906424	1497.108396	0.192773633
50A	50.0244298	0.05002443	0.066831499	0.001342465	0.066695611	-0.203743157	1497.031517	0.19789885
60A	59.9772962	0.029988648	0.080192875	0.001333042	0.079491795	-0.881952944	1495.826058	0.278262792
70A	70.0220368	0.035011018	0.093582934	0.001335563	0.093058369	-0.563694442	1496.470221	0.235318618
80A	80.0275432	0.040013772	0.106945914	0.001336143	0.106467826	-0.449044507	1496.598425	0.226771699
90A	90.0302924	0.045015146	0.120311021	0.001336339	0.11985053	-0.384221209	1496.625856	0.224942928
100A	100.0833686	0.050041684	0.133745337	0.001336339	0.133284892	-0.345459248	1496.625914	0.224939082

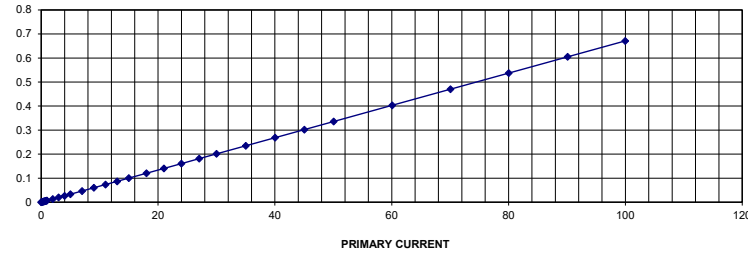
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.000620042	0.000620042	2.53648E-05	0.006595129	-0.000615953	104.1179692	244.4503249	83.70331168
0.1A	0.100442936	0.100442936	0.00068371	0.006592551	4.2133E-05	-1522.740831	1469.087703	2.060819791
0.2A	0.199949527	0.199949527	0.001339712	0.006716712	0.000722961	-85.30898552	1492.481533	0.501231148
0.3A	0.300397751	0.300397751	0.002014394	0.006854332	0.001378904	-46.08654456	1491.256443	0.582903777
0.4A	0.40141363	0.40141363	0.002686587	0.006633551	0.002042755	-31.51779072	1494.139763	0.390682444
0.5A	0.500530199	0.500530199	0.003344082	0.006702095	0.002734559	-22.28963631	1496.764275	0.215715026
0.6A	0.600044823	0.600044823	0.004011038	0.006755242	0.003433406	-16.82388352	1495.983853	0.267743156
0.7A	0.701303569	0.701303569	0.004695065	0.006738854	0.00410594	-14.34812947	1493.703499	0.419766743
0.8A	0.80101521	0.80101521	0.005367008	0.006659858	0.004714605	-13.837896	1492.480111	0.501325916
0.9A	0.900621956	0.900621956	0.006030374	0.006639422	0.005359567	-12.51606497	1493.476023	0.434931813
1A	0.99962587	0.99962587	0.006687703	0.006723192	0.006100635	-9.623070237	1494.722239	0.351850742
2A	1.98578318	1.98578318	0.013317829	0.006701596	0.012687875	-4.96500415	1491.071296	0.59524694
3A	2.98974215	2.98974215	0.020045956	0.006570078	0.019022796	-5.378600326	1491.444027	0.570398666
4A	4.00750538	0.040075054	0.02673274	0.006687036	0.026178292	-2.117967655	1499.100139	0.059990734
5A	5.00394221	0.050039422	0.033395949	0.006641403	0.032613154	-2.400243059	1498.368024	0.108798425
7A	7.00747174	0.035037359	0.046702196	0.006704607	0.046362301	-0.733126818	1500.45873	-0.030582002
9A	9.01435512	0.045071776	0.06015756	0.006725947	0.060010033	-0.245837808	1498.45757	0.102828639
11A	11.0091907	0.022018381	0.073574718	0.006698136	0.07312101	-0.620489806	1496.327942	0.244803836
13A	13.0111671	0.026022334	0.086984228	0.00670958	0.086679419	-0.351650166	1495.807623	0.279491818
15A	15.01101835	0.030022037	0.100402389	0.006691473	0.099825788	-0.57760725	1495.085774	0.327615046
18A	18.0322797	0.036064559	0.120619079	0.006689607	0.12000882	-0.508512198	1494.977399	0.334840063
21A	21.014224	0.042028448	0.140567114	0.006700461	0.140184936	-0.272624359	1494.960194	0.335987074
24A	24.01284775	0.048025696	0.160659274	0.006827087	0.163317754	1.627796308	1494.644358	0.357042777
27A	27.0428098	0.02704281	0.181345088	0.006703397	0.180658644	-0.379967259	1491.234756	0.58434962
30A	30.0199058	0.030019906	0.201301744	0.006709123	0.200787195	-0.256265658	1491.288908	0.580739463
35A	35.0304849	0.035030485	0.234918335	0.006709655	0.234422411	-0.211551279	1491.177132	0.588191211
40A	40.0309055	0.040030906	0.26846943	0.006711734	0.268056728	-0.153960556	1491.078724	0.594751762
45A	45.0434801	0.04504348	0.302112495	0.006715404	0.301865132	-0.081944835	1490.950584	0.603294368
50A	50.0745539	0.050074554	0.335898189	0.00673784	0.33677429	0.260144886	1490.76582	0.615612032
60A	60.0999472	0.030049974	0.403447685	0.006715678	0.402991854	-0.113111733	1489.658993	0.689400494
70A	70.0646938	0.035032347	0.470367715	0.006716723	0.469985076	-0.081415136	1489.572765	0.695148972
80A	80.0320602	0.04001603	0.537315751	0.00671539	0.536826488	-0.091139805	1489.479139	0.701390755
90A	90.1096768	0.045054838	0.604990881	0.006717382	0.604681065	-0.051236296	1489.438595	0.704093643
100A	99.9672056	0.049983603	0.671207666	0.006714279	0.670587624	-0.092462517	1489.363287	0.70911417

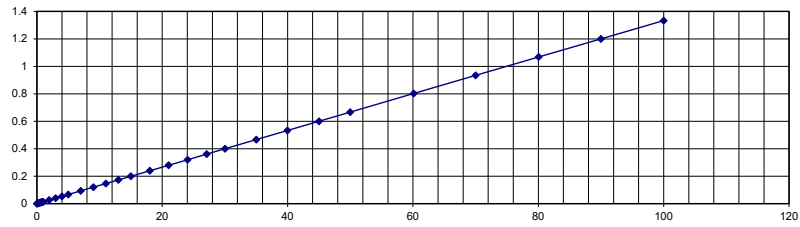
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.000663401	0.000663401	2.64877E-05	0.013077898	-0.000654726	104.0456113	500.9137723	66.60574852
0.1A	0.100319007	0.100319007	0.001329774	0.013197162	0.000660525	-101.320772	1508.813403	-0.587560195
0.2A	0.199861084	0.199861084	0.002643446	0.013328725	0.002000492	-32.13981171	1512.125076	-0.808338419
0.3A	0.300121646	0.300121646	0.003979792	0.013298659	0.003327814	-19.5917824	1508.227812	-0.548520799
0.4A	0.399537618	0.399537618	0.005301891	0.013275254	0.004640562	-14.25105574	1507.151373	-0.476758195
0.5A	0.500685761	0.500685761	0.006644658	0.013326141	0.006008808	-10.58197647	1507.032372	-0.468824807
0.6A	0.599999094	0.599999094	0.007968122	0.013199833	0.007256486	-9.806890607	1505.998794	-0.399919588
0.7A	0.69945624	0.69945624	0.00928094	0.01330718	0.008644389	-7.363746866	1507.296192	-0.486412824
0.8A	0.798976851	0.798976851	0.010605278	0.013368657	0.010017846	-5.863861089	1506.753212	-0.450214309
0.9A	0.898094208	0.898094208	0.011930344	0.013324238	0.011303019	-5.550062206	1505.562959	-0.370863905
1A	0.996202498	0.996202498	0.013237562	0.0133344	0.012620361	-4.890517502	1505.114726	-0.340981763
2A	1.96752622	1.96752622	0.026189582	0.013348034	0.025599205	-2.306230128	1502.525896	-0.168393043
3A	3.00272475	3.00272475	0.040007446	0.013031306	0.038466024	-4.007230884	1501.082933	-0.07219556
4A	4.00579477	0.040057948	0.053078759	0.013308234	0.052646651	-0.820769164	1509.377707	-0.625180468
5A	5.00820815	0.050082082	0.06641911	0.013531947	0.067107408	1.025665197	1508.062399	-0.537493298
7A	6.99798768	0.034989938	0.093344702	0.013363153	0.092851779	-0.530871283	1499.386148	0.040923479
9A	9.01929228	0.045096461	0.120355705	0.013050626	0.117044009	-2.829445507	1498.772705	0.081819636
11A	11.01190605	0.022023812	0.146360562	0.013294585	0.14573532	-0.429025863	1504.764111	-0.317807417
13A	13.00862095	0.026017242	0.172906058	0.013298487	0.172331573	-0.333360346	1504.703895	-0.313593022
15A	14.9977059	0.029995412	0.199357878	0.013293147	0.19870331	-0.329419962	1504.601278	-0.306751861
18A	18.01637835	0.036032757	0.239485535	0.013303295	0.239013791	-0.197370856	1504.590108	-0.306007208
21A	21.01254355	0.042025087	0.279344404	0.013289458	0.278581922	-0.273701226	1504.418435	-0.294562311
24A	24.0433019	0.048086604	0.319621541	0.013556571	0.325281331	1.739967622	1504.4857	-0.299046699
27A	27.1148592	0.027114859	0.361261326	0.013355667	0.361473637	0.058734771	1501.121612	-0.074774126
30A	30.0313447	0.030031345	0.400212936	0.013339943	0.39995303	-0.064984061	1500.768316	-0.051221066
35A	35.0099827	0.035009983	0.466627684	0.013337222	0.466272518	-0.076171411	1500.553178	-0.036878509
40A	39.9857895	0.03998579	0.532991125	0.013352114	0.533231414	0.04506288	1500.429843	-0.028656199
45A	45.0203016	0.045020302	0.600212504	0.013350788	0.600393113	0.03008184	1500.145409	-0.0096939
50A	49.9909666	0.049990967	0.6665748	0.013403141	0.669372575	0.417969784	1499.935689	0.004287391
60A	60.1169198	0.03005846	0.802294379	0.013351549	0.801990606	-0.037877343	1498.624978	0.09166814
70A	69.9952008	0.0349976	0.934184733	0.013320387	0.931699767	-0.266713136	1498.53018	0.097988007
80A	80.0533272	0.040026664	1.06816287	0.013252719	1.060260867	-0.745288559	1498.897396	0.073506955
90A	90.0030332	0.045001517	1.20002353	0.013320595	1.198230514	-0.149638686	1500.02114	-0.001409361
100A	100.0013324	0.050000666	1.33320682	0.013331891	1.332543419	-0.049784602	1500.162329	-0.010821927

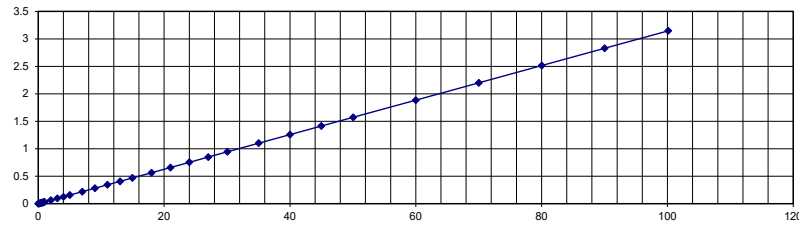
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.000837476	0.000837476	3.12547E-05	0.031094847	-0.000811435	103.851783	1259.374168	16.04172211
0.1A	0.100289157	0.100289157	0.00312369	0.03108562	0.002280074	-36.99945539	1508.981704	-0.598780247
0.2A	0.200537706	0.200537706	0.006239978	0.031200803	0.005419461	-15.1401875	1510.465647	-0.697709816
0.3A	0.300081265	0.300081265	0.009345817	0.031258228	0.008542533	-9.403350811	1509.10506	-0.607004015
0.4A	0.400387109	0.400387109	0.0124812	0.031292488	0.011691633	-6.753266498	1507.72317	-0.514877974
0.5A	0.500221305	0.500221305	0.01560526	0.031447966	0.014893466	-4.779235314	1506.569005	-0.437933678
0.6A	0.600880858	0.600880858	0.018770798	0.031417808	0.018040883	-4.045895452	1504.53911	-0.302607359
0.7A	0.699238306	0.699238306	0.021860974	0.031429692	0.021139369	-3.41356114	1503.327376	-0.221825074
0.8A	0.79941489	0.79941489	0.025009493	0.031143397	0.024059019	-3.950593144	1502.329529	-0.155301909
0.9A	0.895682237	0.895682237	0.028007585	0.031507783	0.027383485	-2.2791119	1503.059433	-0.20396222
1A	1.00160362	1.00160362	0.031344933	0.031231074	0.030443681	-2.960392016	1501.849437	-0.123295823
2A	2.00322243	2.00322243	0.062626565	0.031729769	0.06272431	0.155832754	1503.378877	-0.225258468
3A	3.02565289	3.02565289	0.095068047	0.030527634	0.091528549	-3.867098011	1495.830513	0.277965788
4A	4.01331494	0.040133149	0.125219033	0.031312227	0.124828351	-0.312975048	1506.366865	-0.424457667
5A	5.00933682	0.050093368	0.156406696	0.031112518	0.155015607	-0.897386281	1505.29892	-0.353261321
7A	7.01294416	0.035064721	0.218743966	0.031272876	0.218477459	-0.121983829	1506.822709	-0.454847295
9A	9.00895874	0.045044794	0.281165083	0.031348605	0.281580809	0.147639952	1505.951793	-0.396786178
11A	11.0087764	0.022017553	0.343856576	0.031306607	0.343809962	-0.013558114	1504.733447	-0.315563118
13A	13.0114074	0.026022815	0.406552158	0.031357258	0.407164578	0.150410926	1504.200964	-0.280064237
15A	14.97189405	0.029943788	0.468027643	0.031377219	0.468938916	0.194326624	1503.498844	-0.233256287
18A	18.0048494	0.036009699	0.563193346	0.03145604	0.56552379	0.412085876	1502.553125	-0.170208308
21A	21.0208706	0.042041741	0.65806543	0.031506305	0.661452483	0.512062885	1501.341467	-0.089431148
24A	24.01825475	0.04803651	0.752501929	0.032134787	0.770984018	2.397207836	1500.139641	-0.009309367
27A	27.024344	0.027024344	0.849101966	0.03144016	0.848812217	-0.034135829	1495.867656	0.275489567
30A	30.0548029	0.030054803	0.944380078	0.03143331	0.943878156	-0.053176582	1495.770367	0.281975502
35A	35.0299406	0.035029941	1.10076408	0.031291417	1.095299014	-0.498956554	1495.694889	0.287007415
40A	40.0197312	0.040019731	1.2569017	0.031452335	1.257876515	0.077496853	1496.479292	0.234713852
45A	44.9929448	0.044992945	1.41332088	0.031480496	1.41556273	0.158371654	1496.240829	0.250611378
50A	50.0661165	0.050066117	1.57302684	0.031314985	1.566982198	-0.385750529	1495.910569	0.272628724
60A	60.0008242	0.030000412	1.88413206	0.031507488	1.889637772	0.291363358	1496.730934	0.217937753
70A	70.0304762	0.035015238	2.2001412	0.031460624	2.202364999	0.100973246	1496.009611	0.266025914
80A	80.0329482	0.040016474	2.51482521	0.031433537	2.514881163	0.002224878	1495.749506	0.28336627
90A	90.0309726	0.045015486	2.82909848	0.031415077	2.82749244	-0.056800865	1495.690497	0.287300186
100A	100.1316896	0.050065845	3.14641328	0.031422752	3.145575804	-0.026623939	1495.731486	0.284567593

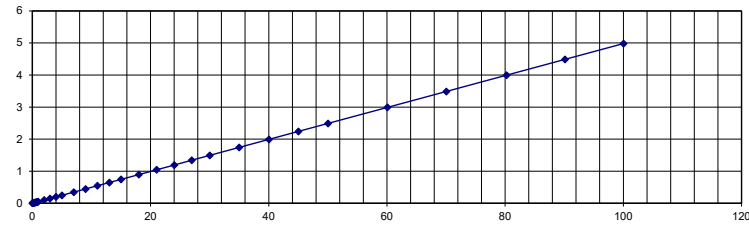
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.000756767	0.000756767	4.49072E-05	0.048274585	-0.000720235	106.2350776	1263.88551	15.74096599
0.1A	0.100767229	0.100767229	0.004872874	0.049056204	0.00418649	-16.39512366	1550.942475	-3.396165002
0.2A	0.199875377	0.199875377	0.00973474	0.049583352	0.009153724	-6.347322913	1539.913023	-2.660868227
0.3A	0.299938303	0.299938303	0.014696196	0.049776412	0.014173085	-3.69087098	1530.693622	-2.046241492
0.4A	0.402927231	0.402927231	0.019822615	0.049777287	0.019299857	-2.708608134	1524.498288	-1.633219196
0.5A	0.498210587	0.498210587	0.024565562	0.04994885	0.024128279	-1.812326346	1521.064095	-1.404272993
0.6A	0.609885384	0.609885384	0.03014359	0.049616531	0.02950363	-2.169088092	1517.450482	-1.163364104
0.7A	0.703023298	0.703023298	0.03476477	0.049777437	0.034237931	-1.538758039	1516.671844	-1.111456234
0.8A	0.80113854	0.80113854	0.039648695	0.049805222	0.039144115	-1.28903043	1515.444342	-1.029622791
0.9A	0.898259561	0.898259561	0.044485829	0.049770338	0.043949914	-1.219375854	1514.402869	-0.960191278
1A	0.996080997	0.996080997	0.049354435	0.049942711	0.048990218	-0.743448948	1513.66488	-0.910991993
2A	1.99790899	1.99790899	0.09938844	0.04946114	0.099031023	-0.360915007	1507.651933	-0.510128842
3A	3.00027974	3.00027974	0.149452964	0.047966718	0.143156806	-4.398085234	1505.630765	-0.375384325
4A	4.00505392	0.040050539	0.197648684	0.049588152	0.197846457	0.099962689	1519.762429	-1.317495238
5A	5.00753019	0.050075302	0.24735963	0.049269573	0.245962108	-0.568185767	1518.294494	-1.219632929
7A	7.01292162	0.035064608	0.34616441	0.049537732	0.346647466	0.139350935	1519.419982	-1.294665445
9A	9.0139634	0.045069817	0.445291482	0.050284352	0.452504543	1.594030674	1518.212861	-1.214190753
11A	11.0042626	0.022008525	0.545372388	0.049661317	0.545729406	0.065420347	1513.314046	-0.887603059
13A	13.03900455	0.026078009	0.646420353	0.049507496	0.644771699	-0.255695806	1512.831916	-0.855461075
15A	15.02007085	0.030040142	0.744497985	0.049651295	0.745009195	0.086617967	1513.10727	-0.873818013
18A	18.0096215	0.036019243	0.892933045	0.049789493	0.895933153	0.334858519	1512.679613	-0.8453075
21A	21.03770145	0.042075403	1.04369961	0.049743298	1.04572788	0.193957742	1511.764107	-0.784273791
24A	24.0204277	0.048040855	1.19207025	0.050845922	1.220584021	2.336076066	1511.263348	-0.750889891
27A	26.9842182	0.026984218	1.34276691	0.049820764	1.343617588	0.063312526	1507.198569	-0.479904587
30A	30.0061767	0.030006177	1.49332319	0.049808679	1.493811257	0.032672595	1507.016879	-0.467791905
35A	34.9906016	0.034990602	1.74159081	0.049823263	1.742589179	0.057292262	1506.837947	-0.455863108
40A	40.0283413	0.040028341	1.99258744	0.049839955	1.994253956	0.083565864	1506.646854	-0.44312359
45A	45.028024	0.045028024	2.2417714	0.049848415	2.243818867	0.091249222	1506.443431	-0.429562086
50A	50.0322846	0.050032285	2.49122586	0.049724877	2.487092441	-0.16619484	1506.254975	-0.416998321
60A	60.0860862	0.030043043	2.99114991	0.049860743	2.995180126	0.134556726	1506.59666	-0.43977356
70A	70.0432778	0.035021639	3.48762288	0.049851952	3.491037376	0.097807477	1506.253977	-0.416931833
80A	80.2383694	0.040119185	3.9958681	0.049867351	4.000518169	0.116236662	1506.025113	-0.401674169
90A	90.1286112	0.045064306	4.48906826	0.049852297	4.492361539	0.07330841	1505.801527	-0.386768456
100A	100.0515062	0.050025753	4.98374737	0.049811818	4.982990603	-0.01518701	1505.666802	-0.377786806

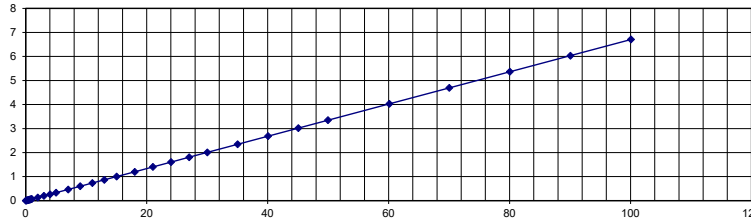
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.00037845	0.00037845	4.94262E-05	0.064928937	-0.000353878	113.9670228	765.6874682	48.95416879
0.1A	0.100399558	0.100399558	0.00654369	0.065791801	0.006227017	-5.085469887	1534.295654	-2.286376901
0.2A	0.200832545	0.200832545	0.013151358	0.066326659	0.012942101	-1.616864134	1527.086044	-1.805736277
0.3A	0.300135016	0.300135016	0.019737759	0.066800072	0.019610563	-0.648605949	1520.61347	-1.374231351
0.4A	0.400045932	0.400045932	0.026391833	0.066421776	0.026193311	-0.757910954	1515.794432	-1.052962112
0.5A	0.499961984	0.499961984	0.033028434	0.066371962	0.032805007	-0.681076407	1513.73201	-0.915467351
0.6A	0.598602064	0.598602064	0.03957537	0.066998085	0.039726742	0.381032262	1512.562142	-0.837476104
0.7A	0.699733717	0.699733717	0.046350997	0.066497049	0.046151777	-0.431663475	1509.641131	-0.642742088
0.8A	0.800117966	0.800117966	0.053026253	0.066729662	0.053013151	-0.024715105	1508.909106	-0.593940385
0.9A	0.898288592	0.898288592	0.059577146	0.066406044	0.059273342	-0.512548067	1507.773787	-0.518252474
1A	0.998442082	0.998442082	0.066227943	0.066820079	0.066337529	0.165193664	1507.584312	-0.505620816
2A	1.99130301	1.99130301	0.132570989	0.066961712	0.132962609	0.294533695	1502.065411	-0.137696038
3A	3.00403034	3.00403034	0.200384945	0.06508217	0.195130363	-2.692857367	1499.129757	0.058016168
4A	4.00354643	0.040035464	0.265435621	0.066638215	0.266410739	0.366020528	1508.292826	-0.552855087
5A	5.00781324	0.050078132	0.332358169	0.066285711	0.331568012	-0.238309309	1506.751964	-0.450130955
7A	7.01613696	0.035080685	0.465481335	0.066613218	0.46698901	0.322850178	1507.286422	-0.485761475
9A	9.00535694	0.045026785	0.597989679	0.067797559	0.610162771	1.995056502	1505.938523	-0.395901538
11A	11.008848	0.022017696	0.733821483	0.066855564	0.735624289	0.245071624	1500.207919	-0.013861273
13A	12.99459905	0.025989198	0.866579989	0.066811961	0.867816201	0.142450897	1499.526785	0.031547655
15A	15.01307655	0.030026153	1.00143843	0.065991367	0.990354987	-1.119138408	1499.151231	0.056584607
18A	18.0194336	0.036038867	1.19983204	0.067623905	1.218166015	1.505047289	1501.829673	-0.121978184
21A	21.02005535	0.042040111	1.4027458	0.067014638	1.408272951	0.392477238	1498.493551	0.100429933
24A	24.02154735	0.048043095	1.6038897	0.068219112	1.63835019	2.103365361	1497.705693	0.152953785
27A	27.0189037	0.027018904	1.80836669	0.067062147	1.811567229	0.176672393	1494.105363	0.392975793
30A	30.0145133	0.030014513	2.0092587	0.066981511	2.010038999	0.03882009	1493.810294	0.412647046
35A	35.0080622	0.035008062	2.34373415	0.067029462	2.346193117	0.104806661	1493.687422	0.420838544
40A	40.0607213	0.040060721	2.68241117	0.067082478	2.686993997	0.170555923	1493.459383	0.436041156
45A	45.0563145	0.045056315	3.01752794	0.067144324	3.024897325	0.243624309	1493.153184	0.456454431
50A	49.968435	0.049968435	3.34734895	0.067077563	3.351382398	0.120351775	1492.776395	0.481573635
60A	60.1206136	0.030060307	4.02833235	0.067010918	4.028359078	0.000663507	1492.444227	0.503718203
70A	70.020667	0.035010334	4.69174402	0.067023683	4.692664548	0.019616327	1492.423003	0.505133128
80A	80.0438364	0.040021918	5.36353375	0.067040323	5.365786225	0.041978476	1492.371264	0.508582425
90A	90.0354232	0.045017712	6.03337296	0.06700049	6.032038999	-0.022114589	1492.290031	0.51399795
100A	100.0681824	0.050034091	6.70557274	0.067010038	6.70519429	-0.005644137	1492.313726	0.512418273

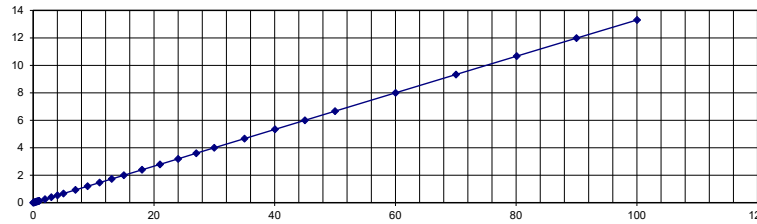
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	1500
FREQUENCY(Hz):	60

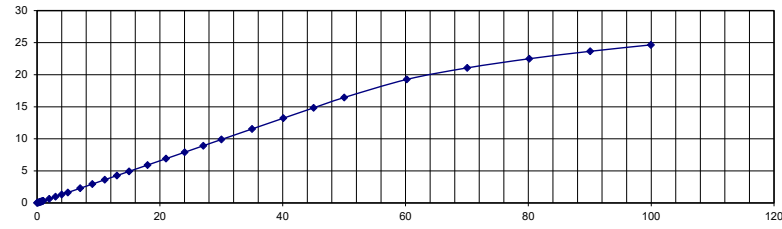


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000416917	0.000416917	6.61855E-05	0.127121285	-0.000363918	118.1869262	1259.844045	16.01039697
0.1A	0.100155038	0.100155038	0.012745024	0.130612381	0.012664571	-0.635257643	1571.672853	-4.778190184
0.2A	0.200785427	0.200785427	0.025888598	0.13152997	0.025992384	0.399293389	1551.149465	-3.409964327
0.3A	0.30054719	0.30054719	0.03901026	0.132013454	0.039259356	0.634487126	1540.862276	-2.724151715
0.4A	0.400456713	0.400456713	0.052199661	0.131998942	0.052442945	0.463902517	1534.326866	-2.288457765
0.5A	0.500797856	0.500797856	0.065444586	0.131992259	0.065684523	0.365287175	1530.448544	-2.02990293
0.6A	0.600328494	0.600328494	0.07858186	0.13210047	0.078886759	0.386502538	1527.906051	-1.860403416
0.7A	0.699895078	0.699895078	0.091734652	0.132448042	0.092282816	0.594004172	1525.9121	-1.727473312
0.8A	0.799371406	0.799371406	0.104910097	0.132176884	0.105241505	0.314902202	1523.917009	-1.594467245
0.9A	0.898795243	0.898795243	0.11805163	0.132052579	0.118271313	0.185744997	1522.715515	-1.514367682
1A	0.999705275	0.999705275	0.13137706	0.131743278	0.131287533	-0.068191776	1521.887116	-1.459141091
2A	1.96421706	1.96421706	0.258445004	0.133410077	0.261629432	1.217151937	1520.027108	-1.335140531
3A	3.00496651	3.00496651	0.397291468	0.134119397	0.402607379	1.320370911	1512.726425	-0.848428321
4A	4.02385624	0.040238562	0.533944344	0.133008579	0.534790482	0.158218604	1507.219352	-0.481290112
5A	5.00689048	0.050068905	0.664696331	0.131537705	0.658177968	-0.990364768	1506.519688	-0.434644543
7A	7.00923374	0.035046169	0.928079969	0.132829049	0.930612933	0.272182361	1510.480556	-0.698703763
9A	9.01273812	0.045063691	1.19420355	0.133541945	1.203161664	0.744547792	1509.414056	-0.627603728
11A	11.00145155	0.022002903	1.45978021	0.132722284	1.459720862	-0.004065699	1507.275064	-0.485004292
13A	13.0145957	0.026029191	1.7269693	0.132758702	1.727383915	0.024002467	1507.217957	-0.481197128
15A	15.01598895	0.030031978	1.99267167	0.132848322	1.994432011	0.088262761	1507.121236	-0.474749059
18A	18.02357885	0.036047158	2.39222494	0.133219832	2.400681226	0.35224527	1506.846497	-0.456433109
21A	21.0079442	0.042015888	2.78980159	0.133160348	2.797008236	0.257655499	1506.052923	-0.403528219
24A	24.00719005	0.04801438	3.18918221	0.136143614	3.268008688	2.412064519	1505.538942	-0.369262794
27A	27.0127361	0.027012736	3.59836811	0.133243734	3.598860907	0.013693127	1501.388145	-0.092542969
30A	29.9898045	0.029989805	3.99504382	0.133266763	3.996227237	0.029613363	1501.350466	-0.090031053
35A	35.0044145	0.035004415	4.66332466	0.133247838	4.663845632	0.011170442	1501.264315	-0.084287648
40A	40.0664005	0.040066401	5.33782335	0.133306778	5.340705844	0.053972157	1501.226169	-0.081744618
45A	45.0085546	0.045008555	5.99664599	0.133261513	5.997491159	0.014092044	1501.124284	-0.074952287
50A	50.0101437	0.050010144	6.66316532	0.133291364	6.665503357	0.035076682	1501.092688	-0.072845859
60A	60.0437722	0.030021886	8.00056135	0.133171913	7.995727106	-0.060460341	1500.988982	-0.065932165
70A	70.0493018	0.035024651	9.33301687	0.132932283	9.311396727	-0.232190113	1501.107365	-0.073824325
80A	80.0979694	0.040048985	10.6688092	0.132388838	10.60366016	-0.61440147	1501.535324	-0.102354941
90A	90.0056068	0.045002803	11.9804698	0.132030149	11.88303673	-0.819934131	1502.538854	-0.169256913
100A	100.037692	0.050018846	13.3050075	0.132999945	13.30459058	-0.003133633	1503.760024	-0.250668279

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
TURNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb



TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.000414949	0.000414949	0.000139387	0.30490718	-0.000288428	148.3262773	1488.482938	0.767804125
0.1A	0.100514603	0.100514603	0.03066049	0.320023541	0.03175209	3.437884272	1639.155207	-9.277013789
0.2A	0.200028351	0.200028351	0.062507232	0.322324767	0.064059142	2.422621467	1600.041669	-6.669444607
0.3A	0.299902205	0.299902205	0.094699049	0.323309587	0.096546309	1.913341289	1583.448882	-5.563258818
0.4A	0.400368089	0.400368089	0.127180632	0.323356153	0.129046536	1.445915558	1574.013601	-4.93424004
0.5A	0.50118776	0.50118776	0.159781293	0.323180007	0.161558914	1.100293008	1568.355565	-4.557037642
0.6A	0.599838844	0.599838844	0.191663351	0.323395101	0.193569994	0.984989147	1564.824054	-4.32160363
0.7A	0.699972046	0.699972046	0.224045938	0.323993239	0.226371261	1.02721662	1562.117243	-4.141149541
0.8A	0.799402806	0.799402806	0.256260832	0.324269146	0.258806716	0.983700789	1559.744421	-3.982961391
0.9A	0.899490503	0.899490503	0.288716184	0.324308958	0.291297878	0.886272897	1557.741742	-3.849449488
1A	0.998213823	0.998213823	0.320733041	0.326340609	0.325342758	1.416880126	1556.144356	-3.742957059
2A	1.99285376	1.99285376	0.645324444	0.326476878	0.650205725	0.750728628	1544.071187	-2.938079108
3A	3.00839638	3.00839638	0.976875628	0.32405719	0.974477527	-0.246090967	1539.805219	-2.653681246
4A	4.01004156	0.040100416	1.30146595	0.325863778	1.306312345	0.370998156	1540.586429	-2.705761914
5A	5.00853299	0.05008533	1.62683814	0.328463102	1.644703333	1.086225852	1539.345823	-2.623054846
7A	7.01525352	0.035076268	2.28597179	0.328000944	2.300594826	0.635619773	1534.413843	-2.294256221
9A	9.001645	0.045008225	2.93751007	0.337263801	3.035514062	3.228579747	1532.189641	-2.145976076
11A	11.0245983	0.022049197	3.61977899	0.328332919	3.61932359	-0.012582449	1522.827544	-1.521836282
13A	13.0173598	0.02603472	4.27406819	0.328838862	4.280198836	0.14323275	1522.830149	-1.522009955
15A	14.99614435	0.029992289	4.92476945	0.329356505	4.938662736	0.281316758	1522.522476	-1.501498376
18A	18.0027368	0.036005474	5.91501023	0.329603267	5.933345908	0.309027622	1521.78408	-1.452271988
21A	21.00855255	0.042017105	6.90573692	0.330158813	6.935743821	0.432641433	1521.094185	-1.406279027
24A	24.02420805	0.048048416	7.90138216	0.334333951	8.031693457	1.622463526	1520.253518	-1.350234527
27A	27.0694193	0.027069419	8.91949967	0.330163142	8.936909589	0.194809161	1517.429245	-1.161949666
30A	30.0286753	0.030028675	9.89653693	0.32993304	9.907037167	0.105987657	1517.130463	-1.142030835
35A	35.0134397	0.03501344	11.5411754	0.329194085	11.52580229	-0.13337996	1516.892279	-1.126151905
40A	40.1152434	0.040115243	13.220659	0.32815194	13.16348001	-0.434375972	1517.142353	-1.142823516
45A	45.0363202	0.04503632	14.8355199	0.32318273	14.55454595	-1.93048928	1517.854464	-1.190297573
50A	50.0146744	0.050014674	16.444438	0.276697168	13.83850383	-18.83103981	1520.717047	-1.381136487
60A	60.2127508	0.030108625	19.267462	0.183005779	11.01968994	-74.84577243	1562.666915	-4.177794322
70A	70.0357238	0.035017862	21.0642993	0.141220492	9.890064415	-112.98445	1662.427095	-10.82847302
80A	80.1443892	0.040072195	22.49185	0.116938038	9.371512645	-140.0023438	1781.631773	-18.77545155
90A	90.0699688	0.045034984	23.6525278	0.101265528	9.120567979	-159.3317418	1904.024161	-26.93494407
100A	99.9690798	0.04998454	24.6549665	0.246625922	24.65455155	-0.001683053	2027.361907	-35.15746047

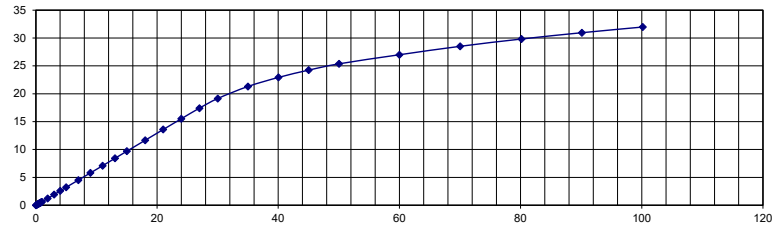
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8349-1500
Lot #:	31441
URNS/RATIO:	1500
DATE:	June 11, 2020
TESTER:	lb

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
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	0.000430118	0.000430118	0.000243978	0.583268913	-0.000179244	236.1155862	1762.934767	-17.52898447	
0.1A	0.100814244	0.100814244	0.058794918	0.623487495	0.062426302	5.817073598	1714.676145	-14.31174297	
0.2A	0.200080733	0.200080733	0.120686333	0.626608098	0.124942089	3.406183157	1657.857423	-10.52382819	
0.3A	0.300065392	0.300065392	0.18333753	0.628071135	0.188032293	2.496785658	1636.682855	-9.112190323	
0.4A	0.400007662	0.400007662	0.246108385	0.629264417	0.251280371	2.058253263	1625.331303	-8.355420181	
0.5A	0.501116573	0.501116573	0.3097326	0.629153505	0.31484913	1.625073567	1617.900644	-7.860042932	
0.6A	0.60046373	0.60046373	0.372237212	0.630325371	0.378057405	1.539499802	1613.121178	-7.541411882	
0.7A	0.701445599	0.701445599	0.435888646	0.630652206	0.441938096	1.368845648	1609.231177	-7.282078491	
0.8A	0.800172137	0.800172137	0.498150755	0.63023216	0.503864096	1.133905235	1606.285103	-7.085673559	
0.9A	0.899951477	0.899951477	0.561034904	0.623928218	0.561075004	0.007146907	1604.091779	-6.939451905	
1A	0.99128223	0.99128223	0.618018738	0.633346748	0.627395259	1.494515768	1603.96792	-6.931194698	
2A	1.95106714	1.95106714	1.22589539	0.646949891	1.261812556	2.846473952	1591.544561	-6.102970717	
3A	2.99913777	2.99913777	1.90394457	0.671409162	2.013218459	5.427820745	1575.223259	-5.014883915	
4A	4.0068365	0.040068365	2.58052273	0.649804118	2.60322874	0.87222492	1552.722808	-3.514853881	
5A	5.00560881	0.050056088	3.22952909	0.639985668	3.20308778	-0.82549439	1549.950061	-3.330004066	
7A	7.00703752	0.035035188	4.51041478	0.647590543	4.537261116	0.591685928	1553.52398	-3.568265326	
9A	9.00915848	0.045045792	5.80696938	0.641711625	5.780851608	-0.451798009	1551.43895	-3.429263361	
11A	11.0077912	0.022015582	7.08951523	0.650969572	7.165307011	1.057760416	1552.686022	-3.512401463	
13A	13.05651155	0.026113023	8.42316984	0.650386189	8.491344669	0.802874352	1550.07103	-3.338068669	
15A	15.0182914	0.030036583	9.69908436	0.649364299	9.751912144	0.541717186	1548.423629	-3.228241915	
18A	18.03711865	0.036074237	11.659403	0.648214953	11.69149989	0.274531859	1547.001905	-3.133460321	
21A	21.01942875	0.042038858	13.592581	0.645619514	13.57012325	-0.165494074	1546.38981	-3.092654	
24A	23.9992332	0.047998466	15.5164009	0.636893641	15.2845289	-1.517037293	1546.701027	-3.113401768	
27A	26.9903904	0.02699039	17.4214499	0.572161594	15.44243467	-12.81543533	1549.262005	-3.284133659	
30A	30.0217536	0.030021754	19.1558795	0.432943999	12.99730794	-47.3834396	1567.234415	-4.482294326	
35A	35.0108328	0.035010833	21.3158714	0.322434811	11.28828113	-88.83186154	1642.477201	-9.498480086	
40A	40.0352264	0.040035226	22.9359108	0.262524506	10.5097979	-118.2336046	1745.525903	-16.3683935	
45A	45.0198323	0.045019832	24.244492	0.225798988	10.16500245	-138.5094554	1856.909697	-23.79397982	
50A	50.0476613	0.050047661	25.3797707	0.16324579	8.169639872	-210.6596019	1971.950885	-31.46339235	
60A	60.0057656	0.030002883	27.0053893	0.151098074	9.066325482	-197.8647673	2221.992245	-48.13281634	
70A	70.011459	0.03500573	28.5172303	0.129385443	9.05803349	-214.828051	2455.058162	-63.67054412	
80A	80.1548366	0.040077418	29.8296357	0.113487402	9.096134028	-227.9375129	2687.087345	-79.13915634	
90A	90.1252966	0.045062648	30.9611573	0.101593998	9.150838272	-238.3423068	2910.914981	-94.0609987	
100A	100.1767172	0.050088359	31.9817725	0.319253549	31.98134238	-0.001344903	3132.306604	-108.8204402	