

# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

**Issued to:** TRACO ELECTRONIC AG  
SIHLBRUGGSTRASSE 111  
CH-6340 BAAR, SWITZERLAND

**This certificate confirms that  
representative samples of**

POWER SUPPLIES, INFORMATION TECHNOLOGY  
EQUIPMENT INCLUDING ELECTRICAL BUSINESS  
EQUIPMENT - COMPONENT

See Addendum Page

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** UL 60950-1 & CSA C22.2 No. 60950-1-07 - Information Technology Equipment - Safety - Part 1: General Requirements

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

**DC to DC Converter**, Models TON 15-2410z1z1z1z1z1z1,  
TON 15-2411z1z1z1z1z1z1, TON 15-2412z1z1z1z1z1z1, TON 15-2413z1z1z1z1z1z1,  
TON 15-4810z1z1z1z1z1z1, TON 15-4811z1z1z1z1z1z1, TON 15-4812z1z1z1z1z1z1,  
TON 15-4813z1z1z1z1z1z1, TMR 0510, TMR 0511, TMR 0514, TMR 0512, TMR 0513, TMR 0521,  
TMR 0522, TMR 0523, TMR 1210, TMR 1211, TMR 1214, TMR 1212, TMR 1213, TMR 1221,  
TMR 1222, TMR 1223, TMR 2410, TMR 2411, TMR 2414, TMR 2412, TMR 2413, TMR 2421,  
TMR 2422, TMR 2423, TMR 4810, TMR 4811, TMR 4814, TMR 4812, TMR 4813, TMR 4821,  
TMR 4822, TMR 4823, TEN 40-2410WI, TEN 40-2411WI, TEN 40-2412WI, TEN 40-2413WI,  
TEN 40-2422WI, TEN 40-2423WI, TEN 40-4810WI, TEN 40-4811WI, TEN 40-4812WI,  
TEN 40-4813WI, TEN 40-4822WI, TEN 40-4823WI, TEN 60-2410, TEN 60-2411, TEN 60-2412,  
TEN 60-2413, TEN 60-4810, TEN 60-4811, TEN 60-4812, TEN 60-4813, TMR 3-0510-z1z1z1z1z1z1,  
TMR 3-0511-z1z1z1z1z1z1, TMR 3-0509-z1z1z1z1z1z1, TMR 3-0512-z1z1z1z1z1z1,  
TMR 3-0513-z1z1z1z1z1z1, TMR 3-0521-z1z1z1z1z1z1, TMR 3-0522-z1z1z1z1z1z1,  
TMR 3-0523-z1z1z1z1z1z1, TMR 3-1210-z1z1z1z1z1z1, TMR 3-1211-z1z1z1z1z1z1,  
TMR 3-1209-z1z1z1z1z1z1, TMR 3-1212-z1z1z1z1z1z1, TMR 3-1213-z1z1z1z1z1z1,  
TMR 3-1221-z1z1z1z1z1z1, TMR 3-1222-z1z1z1z1z1z1, TMR 3-1223-z1z1z1z1z1z1,  
TMR 3-2410-z1z1z1z1z1z1, TMR 3-2411-z1z1z1z1z1z1, TMR 3-2409-z1z1z1z1z1z1,  
TMR 3-2412-z1z1z1z1z1z1, TMR 3-2413-z1z1z1z1z1z1, TMR 3-2421-z1z1z1z1z1z1,  
TMR 3-2422-z1z1z1z1z1z1, TMR 3-2423-z1z1z1z1z1z1, TMR 3-4810-z1z1z1z1z1z1,  
TMR 3-4811-z1z1z1z1z1z1, TMR 3-4809-z1z1z1z1z1z1, TMR 3-4812-z1z1z1z1z1z1,  
TMR 3-4813-z1z1z1z1z1z1, TMR 3-4821-z1z1z1z1z1z1, TMR 3-4822-z1z1z1z1z1z1,  
TMR 3-4823-z1z1z1z1z1z1, TON 15-2410WI-z1z1z1z1z1z1, TON 15-2411WI-z1z1z1z1z1z1,  
TON 15-2412WI-z1z1z1z1z1z1, TON 15-2413WI-z1z1z1z1z1z1, TON 15-4810WI-z1z1z1z1z1z1,  
TON 15-4811WI-z1z1z1z1z1z1, TON 15-4812WI-z1z1z1z1z1z1, TON 15-4813WI-z1z1z1z1z1z1,  
THN 15-1210-z1z1z1z1z1z1, THN 15-1211-z1z1z1z1z1z1, THN 15-1212-z1z1z1z1z1z1,  
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THN 15-2412-z1z1z1z1z1z1, THN 15-2413-z1z1z1z1z1z1, THN 15-4810-z1z1z1z1z1z1,  
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THN 15-2410WI-z1z1z1z1z1z1, THN 15-2411WI-z1z1z1z1z1z1, THN 15-2412WI-z1z1z1z1z1z1,  
THN 15-2413WI-z1z1z1z1z1z1, THN 15-4810WI-z1z1z1z1z1z1, THN 15-4811WI-z1z1z1z1z1z1,  
THN 15-4812WI-z1z1z1z1z1z1, THN 15-4813WI-z1z1z1z1z1z1, TEN 20-2410WIN, TEN 20-2411WIN,  
TEN 20-2412WIN, TEN 20-2413WIN, TEN 20-2421WIN, TEN 20-2422WIN, TEN 20-2423WIN,  
TEN 20-4810WIN, TEN 20-4811WIN, TEN 20-4812WIN, TEN 20-4813WIN, TEN 20-4821WIN,  
TEN 20-4822WIN, TEN 20-4823WIN, TEN 30-1207-z1z1z1z1z1z1, TEN 30-1209-z1z1z1z1z1z1,  
TEN 30-1210-z1z1z1z1z1z1, TEN 30-1211-z1z1z1z1z1z1, TEN 30-1212-z1z1z1z1z1z1,  
TEN 30-1213-z1z1z1z1z1z1, TEN 30-1221-z1z1z1z1z1z1, TEN 30-1222-z1z1z1z1z1z1,  
TEN 30-1223-z1z1z1z1z1z1, TEN 30-2407-z1z1z1z1z1z1, TEN 30-2409-z1z1z1z1z1z1,  
TEN 30-2410-z1z1z1z1z1z1, TEN 30-2411-z1z1z1z1z1z1, TEN 30-2412-z1z1z1z1z1z1,  
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TEN 30-2423-z1z1z1z1z1z1, TEN 30-4807-z1z1z1z1z1z1, TEN 30-4809-z1z1z1z1z1z1,  
TEN 30-4810-z1z1z1z1z1z1, TEN 30-4811-z1z1z1z1z1z1, TEN 30-4812-z1z1z1z1z1z1,



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TEN 30-4813-z1z1z1z1z1z1, TEN 30-4821-z1z1z1z1z1z1, TEN 30-4822-z1z1z1z1z1z1,  
TEN 30-4823-z1z1z1z1z1z1, TEN 30-2407WIN-z1z1z1z1z1z1, TEN 30-2409WIN -z1z1z1z1z1z1,  
TEN 30-2410WIN -z1z1z1z1z1z1, TEN 30-2411WIN -z1z1z1z1z1z1,  
TEN 30-2412WIN -z1z1z1z1z1z1, TEN 30-2413WIN -z1z1z1z1z1z1,  
TEN 30-2421WIN -z1z1z1z1z1z1, TEN 30-2422WIN -z1z1z1z1z1z1,  
TEN 30-2423WIN -z1z1z1z1z1z1, TEN 30-2433WIN -z1z1z1z1z1z1,  
TEN 30-2434WIN -z1z1z1z1z1z1, TEN 30-2431WIN -z1z1z1z1z1z1,  
TEN 30-2432WIN -z1z1z1z1z1z1, TEN 30-4807WIN-z1z1z1z1z1z1,  
TEN 30-4809WIN -z1z1z1z1z1z1, TEN 30-4810WIN -z1z1z1z1z1z1,  
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TEN 30-4831WIN -z1z1z1z1z1z1, TEN 30-4832WIN -z1z1z1z1z1z1,  
TEP 75-2410WI-z1z1z1z1z1z1z1z1, TEP 75-2411WI-z1z1z1z1z1z1z1z1,  
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TEP 100-1212-z1z1z1z1z1z1z1z1z1, TEP 100-1213-z1z1z1z1z1z1z1z1z1,  
TEP 100-1215-z1z1z1z1z1z1z1z1z1, TEP 100-1216-z1z1z1z1z1z1z1z1z1,  
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TEP 100-4812-z1z1z1z1z1z1z1z1z1, TEP 100-4813-z1z1z1z1z1z1z1z1z1,  
TEP 100-4815-z1z1z1z1z1z1z1z1z1, TEP 100-4816-z1z1z1z1z1z1z1z1z1,  
TEP 100-4818-z1z1z1z1z1z1z1z1z1, TEP 150-2412WIzzzzzzzz, TEP 150-2413WIzzzzzzzz,  
TEP 150-2415WIzzzzzzzz, TEP 150-2416WIzzzzzzzz, TEP 150-2418WIzzzzzzzz,  
TEP 150-4812WIzzzzzzzz, TEP 150-4813WIzzzzzzzz, TEP 150-4815WIzzzzzzzz,  
TEP 150-4816WIzzzzzzzz, TEP 150-4818WIzzzzzzzz, TEP 150-2412WI-Ozzzzzzzz,  
TEP 150-2413WI-Ozzzzzzzz, TEP 150-2415WI-Ozzzzzzzz, TEP 150-2416WI-Ozzzzzzzz,  
TEP 150-2418WI-Ozzzzzzzz, TEP 150-4812WI-Ozzzzzzzz, TEP 150-4813WI-Ozzzzzzzz,  
TEP 150-4815WI-Ozzzzzzzz, TEP 150-4816WI-Ozzzzzzzz, TEP 150-4818WI-Ozzzzzzzz,  
TDR 2-1210Wlz1z1z1z1z1z1, TDR 2-1211Wlz1z1z1z1z1z1, TDR 2-1219Wlz1z1z1z1z1z1,  
TDR 2-1212Wlz1z1z1z1z1z1, TDR 2-1213Wlz1z1z1z1z1z1, TDR 2-1221Wlz1z1z1z1z1z1,  
TDR 2-1222Wlz1z1z1z1z1z1, TDR 2-1223Wlz1z1z1z1z1z1, TDR 2-2410Wlz1z1z1z1z1z1,  
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TDR 2-2413Wlz1z1z1z1z1z1, TDR 2-2421Wlz1z1z1z1z1z1, TDR 2-2422Wlz1z1z1z1z1z1,  
TDR 2-2423Wlz1z1z1z1z1z1, TDR 2-4810Wlz1z1z1z1z1z1, TDR 2-4811Wlz1z1z1z1z1z1,



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TDR 2-4819Wlz1z1z1z1z1, TDR 2-4812Wlz1z1z1z1z1, TDR 2-4813Wlz1z1z1z1z1, TDR 2-4821Wlz1z1z1z1z1, TDR 2-4822Wlz1z1z1z1z1, TDR 2-4823Wlz1z1z1z1z1, TDR 2-1211HIWlz1z1z1z1z1, TDR 2-1219HIWlz1z1z1z1z1, TDR 2-1212HIWlz1z1z1z1z1, TDR 2-1213HIWlz1z1z1z1z1, TDR 2-1221HIWlz1z1z1z1z1, TDR 2-1222HIWlz1z1z1z1z1, TDR 2-1223HIWlz1z1z1z1z1, TDR 2-2410HIWlz1z1z1z1z1, TDR 2-2411HIWlz1z1z1z1z1, TDR 2-2419HIWlz1z1z1z1z1, TDR 2-2412HIWlz1z1z1z1z1, TDR 2-2413HIWlz1z1z1z1z1, TDR 2-2421HIWlz1z1z1z1z1, TDR 2-2422HIWlz1z1z1z1z1, TDR 2-2423HIWlz1z1z1z1z1, TDR 2-4810HIWlz1z1z1z1z1, TDR 2-4811HIWlz1z1z1z1z1, TDR 2-4819HIWlz1z1z1z1z1, TDR 2-4812HIWlz1z1z1z1z1, TDR 2-4813HIWlz1z1z1z1z1, TDR 2-4821HIWlz1z1z1z1z1, TDR 2-4822HIWlz1z1z1z1z1, TDR 2-4823HIWlz1z1z1z1z1, TDR 2-0511z1z1z1z1z1, TDR 2-0519z1z1z1z1z1, TDR 2-0512z1z1z1z1z1, TDR 2-0513z1z1z1z1z1, TDR 2-0521z1z1z1z1z1, TDR 2-0522z1z1z1z1z1, TDR 2-0523z1z1z1z1z1, TDR 2-1210z1z1z1z1z1, TDR 2-1211z1z1z1z1z1, TDR 2-1219z1z1z1z1z1, TDR 2-1212z1z1z1z1z1, TDR 2-1213z1z1z1z1z1, TDR 2-1221z1z1z1z1z1, TDR 2-1222z1z1z1z1z1, TDR 2-1223z1z1z1z1z1, TDR 2-2410z1z1z1z1z1, TDR 2-2411z1z1z1z1z1, TDR 2-2419z1z1z1z1z1, TDR 2-2412z1z1z1z1z1, TDR 2-2413z1z1z1z1z1, TDR 2-2421z1z1z1z1z1, TDR 2-2422z1z1z1z1z1, TDR 2-2423z1z1z1z1z1, TDR 2-4810z1z1z1z1z1, TDR 2-4811z1z1z1z1z1, TDR 2-4819z1z1z1z1z1, TDR 2-4812z1z1z1z1z1, TDR 2-4813z1z1z1z1z1, TDR 2-4821z1z1z1z1z1, TDR 2-4822z1z1z1z1z1, TDR 2-4823z1z1z1z1z1, TDR 2-0511Hz1z1z1z1z1, TDR 2-0519Hz1z1z1z1z1, TDR 2-0512Hz1z1z1z1z1, TDR 2-0513Hz1z1z1z1z1, TDR 2-0521Hz1z1z1z1z1, TDR 2-0522Hz1z1z1z1z1, TDR 2-0523Hz1z1z1z1z1, TDR 2-1210Hz1z1z1z1z1, TDR 2-1211Hz1z1z1z1z1, TDR 2-1219Hz1z1z1z1z1, TDR 2-1212Hz1z1z1z1z1, TDR 2-1213Hz1z1z1z1z1, TDR 2-1221Hz1z1z1z1z1, TDR 2-1222Hz1z1z1z1z1, TDR 2-1223Hz1z1z1z1z1, TDR 2-2410Hz1z1z1z1z1, TDR 2-2411Hz1z1z1z1z1, TDR 2-2419Hz1z1z1z1z1, TDR 2-2412Hz1z1z1z1z1, TDR 2-2413Hz1z1z1z1z1, TDR 2-2421Hz1z1z1z1z1, TDR 2-2422Hz1z1z1z1z1, TDR 2-2423Hz1z1z1z1z1, TDR 2-4810Hz1z1z1z1z1, TDR 2-4811Hz1z1z1z1z1, TDR 2-4819Hz1z1z1z1z1, TDR 2-4812Hz1z1z1z1z1, TDR 2-4813Hz1z1z1z1z1, TDR 2-4821Hz1z1z1z1z1, TDR 2-4822Hz1z1z1z1z1, TDR 2-4823Hz1z1z1z1z1, TDR 2-1210WISMz1z1z1z1z1, TDR 2-1211WISMz1z1z1z1z1, TDR 2-1219WISMz1z1z1z1z1, TDR 2-1212WISMz1z1z1z1z1, TDR 2-1213WISMz1z1z1z1z1, TDR 2-1221WISMz1z1z1z1z1, TDR 2-1222WISMz1z1z1z1z1, TDR 2-1223WISMz1z1z1z1z1, TDR 2-2410WISMz1z1z1z1z1, TDR 2-2411WISMz1z1z1z1z1, TDR 2-2419WISMz1z1z1z1z1, TDR 2-2424WISMz1z1z1z1z1, TDR 2-2413WISMz1z1z1z1z1, TDR 2-2421WISMz1z1z1z1z1, TDR 2-2422WISMz1z1z1z1z1, TDR 2-2423WISMz1z1z1z1z1, TDR 2-4810WISMz1z1z1z1z1, TDR 2-4811WISMz1z1z1z1z1, TDR 2-4819WISMz1z1z1z1z1, TDR 2-4812WISMz1z1z1z1z1, TDR 2-4813WISMz1z1z1z1z1, TDR 2-4821WISMz1z1z1z1z1, TDR 2-4822WISMz1z1z1z1z1, TDR 2-4823WISMz1z1z1z1z1, TDR 2-1211HIWISMz1z1z1z1z1, TDR 2-1209HIWISMz1z1z1z1z1, TDR 2-1212HIWISMz1z1z1z1z1, TDR 2-1213HIWISMz1z1z1z1z1, TDR 2-1221HIWISMz1z1z1z1z1, TDR 2-1222HIWISMz1z1z1z1z1, TDR 2-1223HIWISMz1z1z1z1z1, TDR 2-2410HIWISMz1z1z1z1z1, TDR 2-2411HIWISMz1z1z1z1z1, TDR 2-2409HIWISMz1z1z1z1z1, TDR 2-2412HIWISMz1z1z1z1z1, TDR 2-2413HIWISMz1z1z1z1z1, TDR 2-2421HIWISMz1z1z1z1z1, TDR 2-2422HIWISMz1z1z1z1z1, TDR 2-2423HIWISMz1z1z1z1z1, TDR 2-4810HIWISMz1z1z1z1z1, TDR 2-4811HIWISMz1z1z1z1z1,



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**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

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**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

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TEN 30-4810WI, TEN 30-4811WI, TEN 30-4812WI, TEN 30-4813WI, TEN 30-4822WI,  
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
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**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

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# CERTIFICATE OF COMPLIANCE

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Report Reference E188913-20051104  
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**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

TMR 6-2423Hlz1z1z1z1z1 (b), TMR 6-4810Hlz1z1z1z1z1 (b), TMR 6-4811Hlz1z1z1z1z1 (b),  
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TEQ200-7218WIRaaaaaaa (e), TMR 9-2410Wlzzzzzzzz (f), TMR 9-2411Wlzzzzzzzz (f),  
TMR 9-2419Wlzzzzzzzz (f), TMR 9-2412Wlzzzzzzzz (f), TMR 9-2413Wlzzzzzzzz (f),  
TMR 9-2415Wlzzzzzzzz (f), TMR 9-2421Wlzzzzzzzz (f), TMR 9-2422Wlzzzzzzzz (f),  
TMR 9-2423Wlzzzzzzzz (f), TMR 9-4810Wlzzzzzzzz (f), TMR 9-4811Wlzzzzzzzz (f),  
TMR 9-4819Wlzzzzzzzz (f), TMR 9-4812Wlzzzzzzzz (f), TMR 9-4813Wlzzzzzzzz (f),  
TMR 9-4815Wlzzzzzzzz (f), TMR 9-4821Wlzzzzzzzz (f), TMR 9-4822Wlzzzzzzzz (f),  
TMR 9-4823Wlzzzzzzzz (f), TMR 9-1210zzzzzzzz (f), TMR 9-1211zzzzzzzz (f), TMR 9-1219zzzzzzzz  
(f), TMR 9-1212zzzzzzzz (f), TMR 9-1213zzzzzzzz (f), TMR 9-1215zzzzzzzz (f), TMR 9-1221zzzzzzzz  
(f), TMR 9-1222zzzzzzzz (f), TMR 9-1223zzzzzzzz (f), TMR 9-2410zzzzzzzz (f), TMR 9-2411zzzzzzzz  
(f), TMR 9-2419zzzzzzzz (f), TMR 9-2412zzzzzzzz (f), TMR 9-2413zzzzzzzz (f), TMR 9-2415zzzzzzzz  
(f), TMR 9-2421zzzzzzzz (f), TMR 9-2422zzzzzzzz (f), TMR 9-2423zzzzzzzz (f), TMR 9-4810zzzzzzzz  
(f), TMR 9-4811zzzzzzzz (f), TMR 9-4819zzzzzzzz (f), TMR 9-4812zzzzzzzz (f), TMR 9-4813zzzzzzzz  
(f), TMR 9-4815zzzzzzzz (f), TMR 9-4821zzzzzzzz (f), TMR 9-4822zzzzzzzz (f), TMR 9-4823zzzzzzzz  
(f), THN 15-1215aaaaaaa (\$), THN 15-1225aaaaaaa (\$), THN 15-2415aaaaaaa (\$),  
THN 15-2425aaaaaaa (\$), THN 15-4815aaaaaaa (\$), THN 15-4825aaaaaaa (\$),



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

THN 15-2415Wlaaaaaaaa (\$), THN 15-2425Wlaaaaaaaa (\$), THN 15-4815Wlaaaaaaaa (\$),  
THN 15-4825Wlaaaaaaaa (\$), THN 20-1215aaaaaaaa (\$), THN 20-1225aaaaaaaa (\$),  
THN 20-2415aaaaaaaa (\$), THN 20-2425aaaaaaaa (\$), THN 20-4815aaaaaaaa (\$),  
THN 20-4825aaaaaaaa (\$), THN 20-2415Wlaaaaaaaa (\$), THN 20-2425Wlaaaaaaaa (\$),  
THN 20-4815Wlaaaaaaaa (\$), THN 20-4825Wlaaaaaaaa (\$), THN 15-1210aaaaaa (e),  
THN 15-1211aaaaaa (e), THN 15-1212aaaaaa (e), THN 15-1213aaaaaa (e), THN 15-1221aaaaaa (e),  
THN 15-1222aaaaaa (e), THN 15-1223aaaaaa (e), THN 15-2410aaaaaa (e), THN 15-2411aaaaaa (e),  
THN 15-2412aaaaaa (e), THN 15-2413aaaaaa (e), THN 15-2421aaaaaa (e), THN 15-2422aaaaaa (e),  
THN 15-2423aaaaaa (e), THN 15-4810aaaaaa (e), THN 15-4811aaaaaa (e), THN 15-4812aaaaaa (e),  
THN 15-4813aaaaaa (e), THN 15-4821aaaaaa (e), THN 15-4822aaaaaa (e), THN 15-4823aaaaaa (e),  
THN 15-2410Wlaaaaaa (e), THN 15-2411Wlaaaaaa (e), THN 15-2412Wlaaaaaa (e),  
THN 15-2413Wlaaaaaa (e), THN 15-2421Wlaaaaaa (e), THN 15-2422Wlaaaaaa (e),  
THN 15-2423Wlaaaaaa (e), THN 15-4810Wlaaaaaa (e), THN 15-4811Wlaaaaaa (e),  
THN 15-4812Wlaaaaaa (e), THN 15-4813Wlaaaaaa (e), THN 15-4821Wlaaaaaa (e),  
THN 15-4822Wlaaaaaa (e), THN 15-4823Wlaaaaaa (e), TEN 40-2410WIRaaaaaaaa (e),  
TEN 40-2411WIRaaaaaaaa (e), TEN 40-2412WIRaaaaaaaa (e), TEN 40-2413WIRaaaaaaaa (e),  
TEN 40-2415WIRaaaaaaaa (e), TEN 40-2422WIRaaaaaaaa (e), TEN 40-2423WIRaaaaaaaa (e),  
TEN 40-2425WIRaaaaaaaa (e), TEN 40-4810WIRaaaaaaaa (e), TEN 40-4811WIRaaaaaaaa (e),  
TEN 40-4812WIRaaaaaaaa (e), TEN 40-4813WIRaaaaaaaa (e), TEN 40-4815WIRaaaaaaaa (e),  
TEN 40-4822WIRaaaaaaaa (e), TEN 40-4823WIRaaaaaaaa (e), TEN 40-4825WIRaaaaaaaa (e),  
TEN 40-7210WIRaaaaaaaa (e), TEN 40-7211WIRaaaaaaaa (e), TEN 40-7212WIRaaaaaaaa (e),  
TEN 40-7213WIRaaaaaaaa (e), TEN 40-7215WIRaaaaaaaa (e), TEN 40-7222WIRaaaaaaaa (e),  
TEN 40-7223WIRaaaaaaaa (e), TEN 40-7225WIRaaaaaaaa (e), TEN 60-1210Naaaaaaaa (e),  
TEN 60-1211Naaaaaaaa (e), TEN 60-1212Naaaaaaaa (e), TEN 60-1213Naaaaaaaa (e),  
TEN 60-1215Naaaaaaaa (e), TEN 60-1222Naaaaaaaa (e), TEN 60-1223Naaaaaaaa (e),  
TEN 60-1225Naaaaaaaa (e), TEN 60-2410Naaaaaaaa (e), TEN 60-2411Naaaaaaaa (e),  
TEN 60-2412Naaaaaaaa (e), TEN 60-2413Naaaaaaaa (e), TEN 60-2415Naaaaaaaa (e),  
TEN 60-2422Naaaaaaaa (e), TEN 60-2423Naaaaaaaa (e), TEN 60-2425Naaaaaaaa (e),  
TEN 60-4810Naaaaaaaa (e), TEN 60-4811Naaaaaaaa (e), TEN 60-4812Naaaaaaaa (e),  
TEN 60-4813Naaaaaaaa (e), TEN 60-4815Naaaaaaaa (e), TEN 60-4822Naaaaaaaa (e),  
TEN 60-4823Naaaaaaaa (e), TEN 60-2410WINaaaaaaaa (e), TEN 60-2411WINaaaaaaaa (e),  
TEN 60-2412WINaaaaaaaa (e), TEN 60-2413WINaaaaaaaa (e), TEN 60-2415WINaaaaaaaa (e),  
TEN 60-2422WINaaaaaaaa (e), TEN 60-2423WINaaaaaaaa (e), TEN 60-2425WINaaaaaaaa (e),  
TEN 60-4810WINaaaaaaaa (e), TEN 60-4811WINaaaaaaaa (e), TEN 60-4812WINaaaaaaaa (e),  
TEN 60-4813WINaaaaaaaa (e), TEN 60-4815WINaaaaaaaa (e), TEN 60-4822WINaaaaaaaa (e),  
TEN 60-4823WINaaaaaaaa (e), TEN 60-4825WINaaaaaaaa (e), TMR 3-0519z1z1z1z1z1 (b),  
TMR 3-1219z1z1z1z1z1z1 (b), TMR 3-2419z1z1z1z1z1z1 (b), TMR 3-4819z1z1z1z1z1z1 (b),  
TEN 40-1234, TEQ 300-4812WIRaaaaaaaa (e), TEQ 300-4813WIRaaaaaaaa (e),  
TEQ 300-4815WIRaaaaaaaa (e), TEQ 300-4816WIRaaaaaaaa (e), TEQ 300-4818WIRaaaaaaaa (e),  
TEQ 300-7212WIRaaaaaaaa (e), TEQ 300-7213WIRaaaaaaaa (e), TEQ 300-7215WIRaaaaaaaa (e),  
TEQ 300-7216WIRaaaaaaaa (e), TEQ 300-7218WIRaaaaaaaa (e), THN 15-2410WIRzzzzz (f),  
THN 15-2411WIRzzzzz (f), THN 15-2412WIRzzzzz (f), THN 15-2413WIRzzzzz (f),  
THN 15-2415WIRzzzzz (f), THN 15-2421WIRzzzzz (f), THN 15-2422WIRzzzzz (f),  
THN 15-2423WIRzzzzz (f), THN 15-2425WIRzzzzz (f), THN 15-4810WIRzzzzz (f),



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# CERTIFICATE OF COMPLIANCE

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**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

THN 15-4811WIRzzzzz (f), THN 15-4812WIRzzzzz (f), THN 15-4813WIRzzzzz (f),  
THN 15-4815WIRzzzzz (f), THN 15-4821WIRzzzzz (f), THN 15-4822WIRzzzzz (f),  
THN 15-4823WIRzzzzz (f), THN 15-4825WIRzzzzz (f), THN 15-7210WIRzzzzz (f),  
THN 15-7211WIRzzzzz (f), THN 15-7212WIRzzzzz (f), THN 15-7213WIRzzzzz (f),  
THN 15-7215WIRzzzzz (f), THN 15-7221WIRzzzzz (f), THN 15-7222WIRzzzzz (f),  
THN 15-7223WIRzzzzz (f), THN 15-7225WIRzzzzz (f), TEQ 20-2411WIRaaaaaaaa (e),  
TEQ 20-2412WIRaaaaaaaa (e), TEQ 20-2413WIRaaaaaaaa (e), TEQ 20-2415WIRaaaaaaaa (e),  
TEQ 20-4811WIRaaaaaaaa (e), TEQ 20-4812WIRaaaaaaaa (e), TEQ 20-4813WIRaaaaaaaa (e),  
TEQ 20-4815WIRaaaaaaaa (e), TEQ 20-7211WIRaaaaaaaa (e), TEQ 20-7212WIRaaaaaaaa (e),  
TEQ 20-7213WIRaaaaaaaa (e), TEQ 20-7215WIRaaaaaaaa (e), TEQ 40-2411WIRaaaaaaaa (e),  
TEQ 40-2412WIRaaaaaaaa (e), TEQ 40-2413WIRaaaaaaaa (e), TEQ 40-2415WIRaaaaaaaa (e),  
TEQ 40-4811WIRaaaaaaaa (e), TEQ 40-4812WIRaaaaaaaa (e), TEQ 40-4813WIRaaaaaaaa (e),  
TEQ 40-4815WIRaaaaaaaa (e), TEQ 40-7211WIRaaaaaaaa (e), TEQ 40-7212WIRaaaaaaaa (e),  
TEQ 40-7213WIRaaaaaaaa (e), TEQ 40-7215WIRaaaaaaaa (e), THN 15-1210Nzzzzzzzzzz (f),  
THN 15-1211Nzzzzzzzzzz (f), THN 15-1212Nzzzzzzzzzz (f), THN 15-1213Nzzzzzzzzzz (f),  
THN 15-1215Nzzzzzzzzzz (f), THN 15-1221Nzzzzzzzzzz (f), THN 15-1222Nzzzzzzzzzz (f),  
THN 15-1223Nzzzzzzzzzz (f), THN 15-1225Nzzzzzzzzzz (f), THN 15-2410Nzzzzzzzzzz (f),  
THN 15-2411Nzzzzzzzzzz (f), THN 15-2412Nzzzzzzzzzz (f), THN 15-2413Nzzzzzzzzzz (f),  
THN 15-2415Nzzzzzzzzzz (f), THN 15-2421Nzzzzzzzzzz (f), THN 15-2422Nzzzzzzzzzz (f),  
THN 15-2423Nzzzzzzzzzz (f), THN 15-2425Nzzzzzzzzzz (f), THN 15-4810Nzzzzzzzzzz (f),  
THN 15-4811Nzzzzzzzzzz (f), THN 15-4812Nzzzzzzzzzz (f), THN 15-4813Nzzzzzzzzzz (f),  
THN 15-4815Nzzzzzzzzzz (f), THN 15-4821Nzzzzzzzzzz (f), THN 15-4822Nzzzzzzzzzz (f),  
THN 15-4823Nzzzzzzzzzz (f), THN 15-4825Nzzzzzzzzzz (f), TIM 2-0910zzzzzzzzz,  
TIM 2-0911zzzzzzzzz, TIM 2-0912zzzzzzzzz, TIM 2-0913zzzzzzzzz, TIM 2-0915zzzzzzzzz,  
TIM 2-0919zzzzzzzzz, TIM 2-0922zzzzzzzzz, TIM 2-1210zzzzzzzzz, TIM 2-1211zzzzzzzzz,  
TIM 2-1219zzzzzzzzz, TIM 2-1212zzzzzzzzz, TIM 2-1213zzzzzzzzz, TIM 2-1215zzzzzzzzz,  
TIM 2-1222zzzzzzzzz, TIM 2-1223zzzzzzzzz, TIM 2-2410zzzzzzzzz (f), TIM 2-2411zzzzzzzzz (f),  
TIM 2-2412zzzzzzzzz (f), TIM 2-2413zzzzzzzzz (f), TIM 2-2415zzzzzzzzz (f), TIM 2-2422zzzzzzzzz (f),  
TIM 2-2423zzzzzzzzz (f), TIM 2-4810zzzzzzzzz (f), TIM 2-4811zzzzzzzzz (f), TIM 2-4819zzzzzzzzz (f),  
TIM 2-4812zzzzzzzzz (f), TIM 2-4813zzzzzzzzz (f), TIM 2-4815zzzzzzzzz (f), TIM 2-4822zzzzzzzzz (f),  
TIM 2-4823zzzzzzzzz (f), TIM 2-0910SMzzzzzzzzz (f), TIM 2-0911SMzzzzzzzzz (f),  
TIM 2-0919SMzzzzzzzzz (f), TIM 2-0912SMzzzzzzzzz (f), TIM 2-0913SMzzzzzzzzz (f),  
TIM 2-0915SMzzzzzzzzz (f), TIM 2-0922SMzzzzzzzzz (f), TIM 2-0923SMzzzzzzzzz (f),  
TIM 2-1210SMzzzzzzzzz (f), TIM 2-1211SMzzzzzzzzz (f), TIM 2-1219SMzzzzzzzzz (f),  
TIM 2-1212SMzzzzzzzzz (f), TIM 2-1213SMzzzzzzzzz (f), TIM 2-1215SMzzzzzzzzz (f),  
TIM 2-1222SMzzzzzzzzz (f), TIM 2-1223SMzzzzzzzzz (f), TIM 2-2410SMzzzzzzzzz (f),  
TIM 2-2411SMzzzzzzzzz (f), TIM 2-2419SMzzzzzzzzz (f), TIM 2-2412SMzzzzzzzzz (f),  
TIM 2-2413SMzzzzzzzzz (f), TIM 2-2415SMzzzzzzzzz (f), TIM 2-2422SMzzzzzzzzz (f),  
TIM 2-2423SMzzzzzzzzz (f), TIM 2-4810SMzzzzzzzzz (f), TIM 2-4811SMzzzzzzzzz (f),  
TIM 2-4819SMzzzzzzzzz (f), TIM 2-4812SMzzzzzzzzz (f), TIM 2-4813SMzzzzzzzzz (f),  
TIM 2-4815SMzzzzzzzzz (f), TIM 2-4822SMzzzzzzzzz (f), TIM 2-4823SMzzzzzzzzz (f),  
TIM 3.5-0911zzzzzzzzz (f), TIM 3.5-0919zzzzzzzzz (f), TIM 3.5-0912zzzzzzzzz (f),  
TIM 3.5-0913zzzzzzzzz (f), TIM 3.5-0915zzzzzzzzz (f), TIM 3.5-0922zzzzzzzzz (f),  
TIM 3.5-0923zzzzzzzzz (f), TIM 3.5-1211zzzzzzzzz (f), TIM 3.5-1219zzzzzzzzz (f),



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

TIM 3.5-1212zzzzzzzz (f), TIM 3.5-1213zzzzzzzz (f), TIM 3.5-1215zzzzzzzz (f),  
TIM 3.5-1222zzzzzzzz (f), TIM 3.5-1223zzzzzzzz (f), TIM 3.5-2411zzzzzzzz (f),  
TIM 3.5-2419zzzzzzzz (f), TIM 3.5-2412zzzzzzzz (f), TIM 3.5-2413zzzzzzzz (f),  
TIM 3.5-2415zzzzzzzz (f), TIM 3.5-2422zzzzzzzz (f), TIM 3.5-2423zzzzzzzz (f),  
TIM 3.5-4811zzzzzzzz (f), TIM 3.5-4819zzzzzzzz (f), TIM 3.5-4812zzzzzzzz (f),  
TIM 3.5-4813zzzzzzzz (f), TIM 3.5-4815zzzzzzzz (f), TIM 3.5-4822zzzzzzzz (f),  
TIM 3.5-4823zzzzzzzz (f), TIM 3.5-0911SMzzzzzzzz (f), TIM 3.5-0919SMzzzzzzzz (f),  
TIM 3.5-0912SMzzzzzzzz (f), TIM 3.5-0913SMzzzzzzzz (f), TIM 3.5-0915SMzzzzzzzz (f),  
TIM 3.5-0922SMzzzzzzzz (f), TIM 3.5-0923SMzzzzzzzz (f), TIM 3.5-1211SMzzzzzzzz (f),  
TIM 3.5-1219SMzzzzzzzz (f), TIM 3.5-1212SMzzzzzzzz (f), TIM 3.5-1213SMzzzzzzzz (f),  
TIM 3.5-1215SMzzzzzzzz (f), TIM 3.5-1222SMzzzzzzzz (f), TIM 3.5-1223SMzzzzzzzz (f),  
TIM 3.5-2411SMzzzzzzzz (f), TIM 3.5-2419SMzzzzzzzz (f), TIM 3.5-2412SMzzzzzzzz (f),  
TIM 3.5-2413SMzzzzzzzz (f), TIM 3.5-2415SMzzzzzzzz (f), TIM 3.5-2422SMzzzzzzzz (f),  
TIM 3.5-2423SMzzzzzzzz (f), TIM 3.5-4811SMzzzzzzzz (f), TIM 3.5-4819SMzzzzzzzz (f),  
TIM 3.5-4812SMzzzzzzzz (f), TIM 3.5-4813SMzzzzzzzz (f), TIM 3.5-4815SMzzzzzzzz (f),  
TIM 3.5-4822SMzzzzzzzz (f), TIM 3.5-4823SMzzzzzzzz (f), TPP 15-103BA-Jzzzzzzzzz (f),  
TPP 15-105BA-Jzzzzzzzzz (f), TPP 15-107BA-Jzzzzzzzzz (f), TPP 15-109BA-Jzzzzzzzzz (f),  
TPP 15-112BA-Jzzzzzzzzz (f), TPP 15-115BA-Jzzzzzzzzz (f), TPP 15-118BA-Jzzzzzzzzz (f),  
TPP 15-124BA-Jzzzzzzzzz (f), TPP 15-128BA-Jzzzzzzzzz (f), TPP 15-136BA-Jzzzzzzzzz (f),  
TPP 15-148BA-Jzzzzzzzzz (f), TPP 15-153BA-Jzzzzzzzzz (f), TPP 15-103BAzzzzzzzzz (f),  
TPP 15-105BAzzzzzzzzz (f), TPP 15-107BAzzzzzzzzz (f), TPP 15-109BAzzzzzzzzz (f),  
TPP 15-112BAzzzzzzzzz (f), TPP 15-115BAzzzzzzzzz (f), TPP 15-118BAzzzzzzzzz (f),  
TPP 15-124BAzzzzzzzzz (f), TPP 15-128BAzzzzzzzzz (f), TPP 15-136BAzzzzzzzzz (f),  
TPP 15-148BAzzzzzzzzz (f), TPP 15-153BAzzzzzzzzz (f), TPP 15-103BA-Mzzzzzzzzz (f),  
TPP 15-105BA-Mzzzzzzzzz (f), TPP 15-107BA-Mzzzzzzzzz (f), TPP 15-109BA-Mzzzzzzzzz (f),  
TPP 15-112BA-Mzzzzzzzzz (f), TPP 15-115BA-Mzzzzzzzzz (f), TPP 15-118BA-Mzzzzzzzzz (f),  
TPP 15-124BA-Mzzzzzzzzz (f), TPP 15-128BA-Mzzzzzzzzz (f), TPP 15-136BA-Mzzzzzzzzz (f),  
TPP 15-148BA-Mzzzzzzzzz (f), TPP 15-153BA-Mzzzzzzzzz (f), TPP 15-103A-Jzzzzzzzzz (f),  
TPP 15-105A-Jzzzzzzzzz (f), TPP 15-107A-Jzzzzzzzzz (f), TPP 15-109A-Jzzzzzzzzz (f),  
TPP 15-112A-Jzzzzzzzzz (f), TPP 15-115A-Jzzzzzzzzz (f), TPP 15-118A-Jzzzzzzzzz (f),  
TPP 15-124A-Jzzzzzzzzz (f), TPP 15-128A-Jzzzzzzzzz (f), TPP 15-136A-Jzzzzzzzzz (f),  
TPP 15-148A-Jzzzzzzzzz (f), TPP 15-153A-Jzzzzzzzzz (f), TPP 15-103Azzzzzzzzz (f),  
TPP 15-105Azzzzzzzzz (f), TPP 15-107Azzzzzzzzz (f), TPP 15-109Azzzzzzzzz (f),  
TPP 15-112Azzzzzzzzz (f), TPP 15-115Azzzzzzzzz (f), TPP 15-118Azzzzzzzzz (f),  
TPP 15-124Azzzzzzzzz (f), TPP 15-128Azzzzzzzzz (f), TPP 15-136Azzzzzzzzz (f),  
TPP 15-148Azzzzzzzzz (f), TPP 15-153Azzzzzzzzz (f), TPP 15-103A-Mzzzzzzzzz (f),  
TPP 15-105A-Mzzzzzzzzz (f), TPP 15-107A-Mzzzzzzzzz (f), TPP 15-109A-Mzzzzzzzzz (f),  
TPP 15-112A-Mzzzzzzzzz (f), TPP 15-115A-Mzzzzzzzzz (f), TPP 15-118A-Mzzzzzzzzz (f),  
TPP 15-124A-Mzzzzzzzzz (f), TPP 15-128A-Mzzzzzzzzz (f), TPP 15-136A-Mzzzzzzzzz (f),  
TPP 15-148A-Mzzzzzzzzz (f), TPP 15-153A-Mzzzzzzzzz (f), TPP 15-103A-Dzzzzzzzzz (f),  
TPP 15-105A-Dzzzzzzzzz (f), TPP 15-107A-Dzzzzzzzzz (f), TPP 15-109A-Dzzzzzzzzz (f),  
TPP 15-112A-Dzzzzzzzzz (f), TPP 15-115A-Dzzzzzzzzz (f), TPP 15-118A-Dzzzzzzzzz (f),  
TPP 15-124A-Dzzzzzzzzz (f), TPP 15-128A-Dzzzzzzzzz (f), TPP 15-136A-Dzzzzzzzzz (f),  
TPP 15-148A-Dzzzzzzzzz (f), TPP 15-153A-Dzzzzzzzzz (f), TPP 15-103-Jzzzzzzzzz (f),



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# CERTIFICATE OF COMPLIANCE

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**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

TPP 15-105-Jzzzzzzzzz (f), TPP 15-107-Jzzzzzzzzz (f), TPP 15-109-Jzzzzzzzzz (f),  
TPP 15-112-Jzzzzzzzzz (f), TPP 15-115-Jzzzzzzzzz (f), TPP 15-118-Jzzzzzzzzz (f),  
TPP 15-124-Jzzzzzzzzz (f), TPP 15-128-Jzzzzzzzzz (f), TPP 15-136-Jzzzzzzzzz (f),  
TPP 15-148-Jzzzzzzzzz (f), TPP 15-153-Jzzzzzzzzz (f), TPP 15-103zzzzzzzzz (f),  
TPP 15-105zzzzzzzzz (f), TPP 15-107zzzzzzzzz (f), TPP 15-109zzzzzzzzz (f), TPP 15-112zzzzzzzzz (f),  
TPP 15-115zzzzzzzzz (f), TPP 15-118zzzzzzzzz (f), TPP 15-124zzzzzzzzz (f), TPP 15-128zzzzzzzzz (f),  
TPP 15-136zzzzzzzzz (f), TPP 15-148zzzzzzzzz (f), TPP 15-153zzzzzzzzz (f), TPP 15-103-Mzzzzzzzzz (f),  
TPP 15-105-Mzzzzzzzzz (f), TPP 15-107-Mzzzzzzzzz (f), TPP 15-109-Mzzzzzzzzz (f),  
TPP 15-112-Mzzzzzzzzz (f), TPP 15-115-Mzzzzzzzzz (f), TPP 15-118-Mzzzzzzzzz (f),  
TPP 15-124-Mzzzzzzzzz (f), TPP 15-128-Mzzzzzzzzz (f), TPP 15-136-Mzzzzzzzzz (f),  
TPP 15-148-Mzzzzzzzzz (f), TPP 15-153-Mzzzzzzzzz (f), TPP 15-103B-Mzzzzzzzzz (f),  
TPP 15-105B-Mzzzzzzzzz (f), TPP 15-107B-Mzzzzzzzzz (f), TPP 15-109B-Mzzzzzzzzz (f),  
TPP 15-112B-Mzzzzzzzzz (f), TPP 15-115B-Mzzzzzzzzz (f), TPP 15-118B-Mzzzzzzzzz (f),  
TPP 15-124B-Mzzzzzzzzz (f), TPP 15-128B-Mzzzzzzzzz (f), TPP 15-136B-Mzzzzzzzzz (f),  
TPP 15-148B-Mzzzzzzzzz (f), TPP 15-153B-Mzzzzzzzzz (f), TPP 15-103-Dzzzzzzzzz (f),  
TPP 15-105-Dzzzzzzzzz (f), TPP 15-107-Dzzzzzzzzz (f), TPP 15-109-Dzzzzzzzzz (f),  
TPP 15-112-Dzzzzzzzzz (f), TPP 15-115-Dzzzzzzzzz (f), TPP 15-118-Dzzzzzzzzz (f),  
TPP 15-124-Dzzzzzzzzz (f), TPP 15-128-Dzzzzzzzzz (f), TPP 15-136-Dzzzzzzzzz (f),  
TPP 15-148-Dzzzzzzzzz (f), TPP 15-153-Dzzzzzzzzz (f), TPP 15-103A2-Jzzzzzzzzz (f),  
TPP 15-105A2-Jzzzzzzzzz (f), TPP 15-107A2-Jzzzzzzzzz (f), TPP 15-109A2-Jzzzzzzzzz (f),  
TPP 15-112A2-Jzzzzzzzzz (f), TPP 15-115A2-Jzzzzzzzzz (f), TPP 15-118A2-Jzzzzzzzzz (f),  
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TPP 30-115BAzzzzzzzzz (f), TPP 30-115.1BAzzzzzzzzz (f), TPP 30-118BAzzzzzzzzz (f),  
TPP 30-124BAzzzzzzzzz (f), TPP 30-128BAzzzzzzzzz (f), TPP 30-136BAzzzzzzzzz (f),



Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

TPP 30-148BAzzzzzzzz (f), TPP 30-153BAzzzzzzzz (f), TPP 30-103Bzzzzzzzz (f),  
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TPP 30-107-Jzzzzzzzz (f), TPP 30-109-Jzzzzzzzz (f), TPP 30-112-Jzzzzzzzz (f),  
TPP 30-112.1-Jzzzzzzzz (f), TPP 30-115-Jzzzzzzzz (f), TPP 30-115.1-Jzzzzzzzz (f),  
TPP 30-118-Jzzzzzzzz (f), TPP 30-124-Jzzzzzzzz (f), TPP 30-128-Jzzzzzzzz (f),  
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TPP 30-112zzzzzzzz (f), TPP 30-112.1zzzzzzzz (f), TPP 30-115zzzzzzzz (f),



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

TPP 30-115.1zzzzzzzz (f), TPP 30-118zzzzzzzz (f), TPP 30-124zzzzzzzz (f), TPP 30-128zzzzzzzz (f),  
TPP 30-136zzzzzzzz (f), TPP 30-148zzzzzzzz (f), TPP 30-153zzzzzzzz (f),  
TPP 30-103A-Mzzzzzzzz (f), TPP 30-105A-Mzzzzzzzz (f), TPP 30-107A-Mzzzzzzzz (f),  
TPP 30-109A-Mzzzzzzzz (f), TPP 30-112A-Mzzzzzzzz (f), TPP 30-112.1A-Mzzzzzzzz (f),  
TPP 30-115A-Mzzzzzzzz (f), TPP 30-115.1A-Mzzzzzzzz (f), TPP 30-118A-Mzzzzzzzz (f),  
TPP 30-124A-Mzzzzzzzz (f), TPP 30-128A-Mzzzzzzzz (f), TPP 30-136A-Mzzzzzzzz (f),  
TPP 30-148A-Mzzzzzzzz (f), TPP 30-153A-Mzzzzzzzz (f), TPP 30-103-Mzzzzzzzz (f),  
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TPP 30-128-Mzzzzzzzz (f), TPP 30-136-Mzzzzzzzz (f), TPP 30-148-Mzzzzzzzz (f),  
TPP 30-153-Mzzzzzzzz (f), TPP 30-103A-Dzzzzzzzz (f), TPP 30-105A-Dzzzzzzzz (f),  
TPP 30-107A-Dzzzzzzzz (f), TPP 30-109A-Dzzzzzzzz (f), TPP 30-112A-Dzzzzzzzz (f),  
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TPP 30-148-Dzzzzzzzz (f), TPP 30-153-Dzzzzzzzz (f), TPP 30-103A2-Jzzzzzzzz (f),  
TPP 30-105A2-Jzzzzzzzz (f), TPP 30-107A2-Jzzzzzzzz (f), TPP 30-109A2-Jzzzzzzzz (f),  
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TPP 30-148A2zzzzzzzz (f), TPP 30-153A2zzzzzzzz (f), TMR 6-2410WIRzzzzzzzz,  
TMR 6-2411WIRzzzzzzzz, TMR 6-2419WIRzzzzzzzz, TMR 6-2412WIRzzzzzzzz,  
TMR 6-2413WIRzzzzzzzz, TMR 6-2415WIRzzzzzzzz, TMR 6-2421WIRzzzzzzzz,  
TMR 6-2422WIRzzzzzzzz, TMR 6-2423WIRzzzzzzzz, TMR 6-4810WIRzzzzzzzz,  
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TMR 6-7215WIRzzzzzzzz, TMR 6-7221WIRzzzzzzzz, TMR 6-7222WIRzzzzzzzz,  
TMR 6-7223WIRzzzzzzzz, TMR 3-2410WIRzzzzzzzz, TMR 3-2411WIRzzzzzzzz,



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# CERTIFICATE OF COMPLIANCE

Certificate Number E188913  
Report Reference E188913-20051104  
Issue Date 2021-APRIL-22

TMR 3-2419WIRzzzzzzzz, TMR 3-2412WIRzzzzzzzz, TMR 3-2413WIRzzzzzzzz,  
TMR 3-2415WIRzzzzzzzz, TMR 3-2421WIRzzzzzzzz, TMR 3-2422WIRzzzzzzzz,  
TMR 3-2423WIRzzzzzzzz, TMR 3-4810WIRzzzzzzzz, TMR 3-4811WIRzzzzzzzz,  
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TMR 3-7215WIRzzzzzzzz, TMR 3-7221WIRzzzzzzzz, TMR 3-7222WIRzzzzzzzz,  
TMR 3-7223WIRzzzzzzzz, THM 15-2411Wlzzzzzzzz, THM 15-2412Wlzzzzzzzz,  
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Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

THM 30-12S10zzzzzzzz, THM 30-1214zzzzzzzz, THM 30-24S10zzzzzzzz, THM 30-2414zzzzzzzz,  
THM 30-48S10zzzzzzzz, THM 30-4814zzzzzzzz, THM 30-24S10Wlzzzzzzzz,  
THM 30-2414Wlzzzzzzzz, THM 30-48S10Wlzzzzzzzz, THM 30-4814Wlzzzzzzzz,  
TPP 450-112A-MB4zzzzzzzz, TPP 450-115A-MB4zzzzzzzz, TPP 450-118A-MB4zzzzzzzz,  
TPP 450-124A-MB4zzzzzzzz, TPP 450-128A-MB4zzzzzzzz, TPP 450-136A-MB4zzzzzzzz,  
TPP 450-142A-MB4zzzzzzzz, TPP 450-148A-MB4zzzzzzzz, TPP 450-153A-MB4zzzzzzzz,  
TPP 450-112A-Mzzzzzzzz, TPP 450-115A-Mzzzzzzzz, TPP 450-118A-Mzzzzzzzz,  
TPP 450-124A-Mzzzzzzzz, TPP 450-128A-Mzzzzzzzz, TPP 450-136A-Mzzzzzzzz,  
TPP 450-142A-Mzzzzzzzz, TPP 450-148A-Mzzzzzzzz, TPP 450-153A-Mzzzzzzzz,  
TPP 450-112-MB5zzzzzzzz, TPP 450-115-MB5zzzzzzzz, TPP 450-118-MB5zzzzzzzz,  
TPP 450-124-MB5zzzzzzzz, TPP 450-128-MB5zzzzzzzz, TPP 450-136-MB5zzzzzzzz,  
TPP 450-142-MB5zzzzzzzz, TPP 450-148-MB5zzzzzzzz, TPP 450-153-MB5zzzzzzzz,  
TPP 450-112-MB6zzzzzzzz, TPP 450-115-MB6zzzzzzzz, TPP 450-118-MB6zzzzzzzz,  
TPP 450-124-MB6zzzzzzzz, TPP 450-128-MB6zzzzzzzz, TPP 450-136-MB6zzzzzzzz,  
TPP 450-142-MB6zzzzzzzz, TPP 450-148-MB6zzzzzzzz, TPP 450-153-MB6zzzzzzzz,  
TPP 450-112-MB3zzzzzzzz, TPP 450-115-MB3zzzzzzzz, TPP 450-118-MB3zzzzzzzz,  
TPP 450-124-MB3zzzzzzzz, TPP 450-128-MB3zzzzzzzz, TPP 450-136-MB3zzzzzzzz,  
TPP 450-142-MB3zzzzzzzz, TPP 450-148-MB3zzzzzzzz, TPP 450-153-MB3zzzzzzzz,  
TPP 450-112-MB1zzzzzzzz, TPP 450-118-MB1zzzzzzzz, TPP 450-124-MB1zzzzzzzz,  
TPP 450-128-MB1zzzzzzzz, TPP 450-136-MB1zzzzzzzz, TPP 450-142-MB1zzzzzzzz,  
TPP 450-148-MB1zzzzzzzz, TPP 450-153-MB1zzzzzzzz, TPP 450-112-MB2zzzzzzzz,  
TPP 450-115-MB2zzzzzzzz, TPP 450-118-MB2zzzzzzzz, TPP 450-124-MB2zzzzzzzz,  
TPP 450-128-MB2zzzzzzzz, TPP 450-136-MB2zzzzzzzz, TPP 450-142-MB2zzzzzzzz,  
TPP 450-148-MB2zzzzzzzz, TPP 450-153-MB2zzzzzzzz, TPP 450-112-Mzzzzzzzz,  
TPP 450-115-Mzzzzzzzz, TPP 450-118-Mzzzzzzzz, TPP 450-124-Mzzzzzzzz,  
TPP 450-128-Mzzzzzzzz, TPP 450-136-Mzzzzzzzz, TPP 450-142-Mzzzzzzzz,  
TPP 450-148-Mzzzzzzzz, TPP 450-153-Mzzzzzzzz, TPI 450-112BA-MB4zzzzzzzz,  
TPI 450-115BA-MB4zzzzzzzz, TPI 450-118BA-MB4zzzzzzzz, TPI 450-124BA-MB4zzzzzzzz,  
TPI 450-128BA-MB4zzzzzzzz, TPI 450-136BA-MB4zzzzzzzz, TPI 450-142BA-MB4zzzzzzzz,  
TPI 450-148BA-MB4zzzzzzzz, TPI 450-153BA-MB4zzzzzzzz, TPI 450-112BA-Mzzzzzzzz,  
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TPI 450-148BA-Mzzzzzzzz, TPI 450-153BA-Mzzzzzzzz, TPI 450-112B-MB3zzzzzzzz,  
TPI 450-115B-MB3zzzzzzzz, TPI 450-118B-MB3zzzzzzzz, TPI 450-124B-MB3zzzzzzzz,  
TPI 450-128B-MB3zzzzzzzz, TPI 450-136B-MB3zzzzzzzz, TPI 450-142B-MB3zzzzzzzz,  
TPI 450-148B-MB3zzzzzzzz, TPI 450-153B-MB3zzzzzzzz, TPI 450-112B-MB2zzzzzzzz,  
TPI 450-115B-MB2zzzzzzzz, TPI 450-118B-MB2zzzzzzzz, TPI 450-124B-MB2zzzzzzzz,  
TPI 450-128B-MB2zzzzzzzz, TPI 450-136B-MB2zzzzzzzz, TPI 450-142B-MB2zzzzzzzz,  
TPI 450-148B-MB2zzzzzzzz, TPI 450-153B-MB2zzzzzzzz, TPI 450-112B-MB1zzzzzzzz,  
TPI 450-115B-MB1zzzzzzzz, TPI 450-118B-MB1zzzzzzzz, TPI 450-124B-MB1zzzzzzzz,  
TPI 450-128B-MB1zzzzzzzz, TPI 450-136B-MB1zzzzzzzz, TPI 450-142B-MB1zzzzzzzz,  
TPI 450-148B-MB1zzzzzzzz, TPI 450-153B-MB1zzzzzzzz, TPI 450-112B-Mzzzzzzzz,  
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TPI 450-128B-Mzzzzzzzz, TPI 450-136B-Mzzzzzzzz, TPI 450-142B-Mzzzzzzzz,



Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20051104  
**Issue Date** 2021-APRIL-22

TPI 450-148B-Mzzzzzzzz, TPI 450-153B-Mzzzzzzzz, TPI 450-112B-MB6zzzzzzzz,  
TPI 450-115B-MB6zzzzzzzz, TPI 450-118B-MB6zzzzzzzz, TPI 450-124B-MB6zzzzzzzz,  
TPI 450-128B-MB6zzzzzzzz, TPI 450-136B-MB6zzzzzzzz, TPI 450-142B-MB6zzzzzzzz,  
TPI 450-148B-MB6zzzzzzzz, TPI 450-153B-MB6zzzzzzzz, TPI 450-112B-MB5zzzzzzzz,  
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TPI 450-148B-MB5zzzzzzzz, TPI 450-153B-MB5zzzzzzzz, TPI 450-112A-MB4zzzzzzzz,  
TPI 450-115A-MB4zzzzzzzz, TPI 450-118A-MB4zzzzzzzz, TPI 450-124A-MB4zzzzzzzz,  
TPI 450-128A-MB4zzzzzzzz, TPI 450-136A-MB4zzzzzzzz, TPI 450-142A-MB4zzzzzzzz,  
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TPI 450-136A-Mzzzzzzzz, TPI 450-142A-Mzzzzzzzz, TPI 450-148A-Mzzzzzzzz,  
TPI 450-153A-Mzzzzzzzz, TPI 450-112-MB3zzzzzzzz, TPI 450-115-MB3zzzzzzzz,  
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TPI 450-136-MB3zzzzzzzz, TPI 450-142-MB3zzzzzzzz, TPI 450-148-MB3zzzzzzzz,  
TPI 450-153-MB3zzzzzzzz, TPI 450-112-MB2zzzzzzzz, TPI 450-115-MB2zzzzzzzz,  
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TPI 450-153-Mzzzzzzzz, TPI 450-112-MB6zzzzzzzz, TPI 450-115-MB6zzzzzzzz,  
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TPI 450-153-MB6zzzzzzzz, TPI 450-112-MB5zzzzzzzz, TPI 450-115-MB5zzzzzzzz,  
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TPI 450-136-MB5zzzzzzzz, TPI 450-142-MB5zzzzzzzz, TPI 450-148-MB5zzzzzzzz,  
TPI 450-153-MB5zzzzzzzz

- Where "z1" - can be any alphanumeric character, "-" or blank for market purpose.  
Where "z" may be any alphanumeric character, "-" or blank for market purpose.  
Where "a" may be any alphanumeric character, "-" or blank for market purpose.  
(#) - Where "a" may be any alphanumeric character, punctuation mark or blank.  
(b) - Where z1 may be any alphanumeric character, "-" or blank for market purpose.  
(d) - Where "z" may be any alphanumeric character, "-" or blank for market purpose.  
(e) - Where "a" may be any alphanumeric character, "-" or blank for market purpose  
(f) - Where "z" may be any alphanumeric character, "-" or blank for market purpose.  
(\$) - Where "a" may be any alphanumeric character, "-" or blank.



Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

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**Issue Date** 2021-APRIL-22

(QQGQ2/8 & QQJQ2/8):

TPP 450-112BA-MB4zzzzzzzz, TPP 450-115BA-MB4zzzzzzzz, TPP 450-118BA-MB4zzzzzzzz, TPP 450-124BA-MB4zzzzzzzz, TPP 450-128BA-MB4zzzzzzzz, TPP 450-136BA-MB4zzzzzzzz, TPP 450-142BA-MB4zzzzzzzz, TPP 450-148BA-MB4zzzzzzzz, TPP 450-153BA-MB4zzzzzzzz, TPP 450-112BA-Mzzzzzzzz, TPP 450-115BA-Mzzzzzzzz, TPP 450-118BA-Mzzzzzzzz, TPP 450-124BA-Mzzzzzzzz, TPP 450-128BA-Mzzzzzzzz, TPP 450-136BA-Mzzzzzzzz, TPP 450-142BA-Mzzzzzzzz, TPP 450-148BA-Mzzzzzzzz, TPP 450-153BA-Mzzzzzzzz, TPP 450-112B-MB5zzzzzzzz, TPP 450-115B-MB5zzzzzzzz, TPP 450-118B-MB5zzzzzzzz, TPP 450-124B-MB5zzzzzzzz, TPP 450-128B-MB5zzzzzzzz, TPP 450-136B-MB5zzzzzzzz, TPP 450-142B-MB5zzzzzzzz, TPP 450-148B-MB5zzzzzzzz, TPP 450-153B-MB5zzzzzzzz, TPP 450-112B-MB6zzzzzzzz, TPP 450-115B-MB6zzzzzzzz, TPP 450-118B-MB6zzzzzzzz, TPP 450-124B-MB6zzzzzzzz, TPP 450-128B-MB6zzzzzzzz, TPP 450-136B-MB6zzzzzzzz, TPP 450-142B-MB6zzzzzzzz, TPP 450-148B-MB6zzzzzzzz, TPP 450-153B-MB6zzzzzzzz, TPP 450-112B-MB3zzzzzzzz, TPP 450-115B-MB3zzzzzzzz, TPP 450-118B-MB3zzzzzzzz, TPP 450-124B-MB3zzzzzzzz, TPP 450-128B-MB3zzzzzzzz, TPP 450-136B-MB3zzzzzzzz, TPP 450-142B-MB3zzzzzzzz, TPP 450-148B-MB3zzzzzzzz, TPP 450-153B-MB3zzzzzzzz, TPP 450-112B-MB1zzzzzzzz, TPP 450-115B-MB1zzzzzzzz, TPP 450-118B-MB1zzzzzzzz, TPP 450-124B-MB1zzzzzzzz, TPP 450-128B-MB1zzzzzzzz, TPP 450-136B-MB1zzzzzzzz, TPP 450-142B-MB1zzzzzzzz, TPP 450-148B-MB1zzzzzzzz, TPP 450-153B-MB1zzzzzzzz, TPP 450-112B-MB2zzzzzzzz, TPP 450-115B-MB2zzzzzzzz, TPP 450-118B-MB2zzzzzzzz, TPP 450-124B-MB2zzzzzzzz, TPP 450-128B-MB2zzzzzzzz, TPP 450-136B-MB2zzzzzzzz, TPP 450-142B-MB2zzzzzzzz, TPP 450-148B-MB2zzzzzzzz, TPP 450-153B-MB2zzzzzzzz, TPP 450-112B-Mzzzzzzzz, TPP 450-115B-Mzzzzzzzz, TPP 450-118B-Mzzzzzzzz, TPP 450-124B-Mzzzzzzzz, TPP 450-128B-Mzzzzzzzz, TPP 450-136B-Mzzzzzzzz, TPP 450-142B-Mzzzzzzzz, TPP 450-148B-Mzzzzzzzz, TPP 450-153B-Mzzzzzzzz.

Note: z can be any alphanumeric or dash or blank

DC-DC Converter (QQJQ2/8)

TEN 40-11011WIRHaaaaaa  
TEN 40-11012WIRHaaaaaa  
TEN 40-11013WIRHaaaaaa  
TEN 40-11015WIRHaaaaaa  
TEN 40-11022WIRHaaaaaa  
TEN 40-11023WIRHaaaaaa

Note: a = alphanumeric, "-", "/" or blank for marketing purposes



Bruce Mahrenholz, Director North American Certification Program

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Issue Date 2021-APRIL-22

QQJQ2/8

THN 15-1221zzzzzz, THN 15-1222zzzzzz, THN 15-1223zzzzzz, THN 15-1210zzzzzz, THN 15-1211zzzzzz, THN 15-1212zzzzzz, THN 15-1213zzzzzz, THN 15-1221zzzzzz, THN 15-1222zzzzzz, THN 15-1223zzzzzz, THN 15-2410zzzzzz, THN 15-2411zzzzzz, THN 15-2412zzzzzz, THN 15-2413zzzzzz, THN 15-2421zzzzzz, THN 15-2422zzzzzz, THN 15-2423zzzzzz, THN 15-4810zzzzzz, THN 15-4811zzzzzz, THN 15-4812zzzzzz, THN 15-4813zzzzzz, THN 15-4821zzzzzz, THN 15-4822zzzzzz, THN 15-4823zzzzzz, THN 15-2410Wlzzzzzz, THN 15-2411Wlzzzzzz, THN 15-2412Wlzzzzzz, THN 15-2413Wlzzzzzz, THN 15-2421Wlzzzzzz, THN 15-2422Wlzzzzzz, THN 15-2423Wlzzzzzz, THN 15-4810Wlzzzzzz, THN 15-4811Wlzzzzzz, THN 15-4812Wlzzzzzz, THN 15-4813Wlzzzzzz, THN 15-4821Wlzzzzzz, THN 15-4822Wlzzzzzz, THN 15-4823Wlzzzzzz, TEP 150-7212Wlzzzzzz, TEP 150-7213Wlzzzzzz, TEP 150-7215Wlzzzzzz, TEP 150-7216Wlzzzzzz, TEP 150-7218Wlzzzzzz, TEP 150-7212WI-Ozzzzzz, TEP 150-7213WI-Ozzzzzz, TEP 150-7215WI-Ozzzzzz, TEP 150-7216WI-Ozzzzzz, TEP 150-7218WI-Ozzzzzz, TEP 150-7212WI-Fzzzzzz, TEP 150-7213WI-Fzzzzzz, TEP 150-7215WI-Fzzzzzz, TEP 150-7216WI-Fzzzzzz, TEP 150-7218WI-Fzzzzzz, TMR 3-1210WIHI zzzzzz, TMR 3-1211WIHI zzzzzz, TMR 3-1219WIHI zzzzzz, TMR 3-1212WIHI zzzzzz, TMR 3-1213WIHI zzzzzz, TMR 3-1221WIHI zzzzzz, TMR 3-1222WIHI zzzzzz, TMR 3-1223WIHI zzzzzz, TMR 3-2410WIHI zzzzzz, TMR 3-2411WIHI zzzzzz, TMR 3-2419WIHI zzzzzz, TMR 3-2412WIHI zzzzzz, TMR 3-2413WIHI zzzzzz, TMR 3-2421WIHI zzzzzz, TMR 3-2422WIHI zzzzzz, TMR 3-2423WIHI zzzzzz, TMR 3-4810WIHI zzzzzz, TMR 3-4811WIHI zzzzzz, TMR 3-4819WIHI zzzzzz, TMR 3-4812WIHI zzzzzz, TMR 3-4813WIHI zzzzzz, TMR 3-4821WIHI zzzzzz, TMR 3-4822WIHI zzzzzz, TMR 3-4823WIHI zzzzzz, TMR 3-0519 zzzzzz, TMR 3-1219 zzzzzz, TMR 3-2419 zzzzzz, TMR 3-4819 zzzzzz, TEP 160-1218zzzzzz, TEP 160-2418zzzzzz, TEP 160-4818zzzzzz, TEP 160-48153zzzzzz, TEP 160-2418WIRzzzzzz, TEP 160-4818WIRzzzzzz, TEP 160-7218WIRzzzzzz, TEP 200-1218zzzzzz, TEP 200-2418zzzzzz, TEP 200-4818zzzzzz, TEP 200-48153zzzzzz, TEP 200-2418WIRzzzzzz, TEP 200-4818WIRzzzzzz, TEP 200-7218WIRzzzzzz, TEP 100-2418WIRzzzzzz, TEP 100-4818WIRzzzzzz, THN 30-1210zzzzzz, THN 30-1211zzzzzz, THN 30-1212zzzzzz, THN 30-1213zzzzzz, THN 30-1215zzzzzz, THN 30-1222zzzzzz, THN 30-1223zzzzzz, THN 30-1225zzzzzz, THN 30-2410zzzzzz, THN 30-2411zzzzzz, THN 30-2412zzzzzz, THN 30-2413zzzzzz, THN 30-2415zzzzzz, THN 30-2422zzzzzz, THN 30-2423zzzzzz, THN 30-2425zzzzzz, THN 30-4810zzzzzz, THN 30-4811zzzzzz, THN 30-4812zzzzzz, THN 30-4813zzzzzz, THN 30-4815zzzzzz, THN 30-4822zzzzzz, THN 30-4823zzzzzz, THN 30-4825zzzzzz, THN 30-2410Wlzzzzzz, THN 30-2411Wlzzzzzz, THN 30-2412Wlzzzzzz, THN 30-2413Wlzzzzzz, THN 30-2415Wlzzzzzz, THN 30-2422Wlzzzzzz, THN 30-2423Wlzzzzzz, THN 30-2425Wlzzzzzz, THN 30-4810Wlzzzzzz, THN 30-4811Wlzzzzzz, THN 30-4812Wlzzzzzz, THN 30-4813Wlzzzzzz, THN 30-4815Wlzzzzzz, THN 30-4822Wlzzzzzz, THN 30-4823Wlzzzzzz, THN 30-4825Wlzzzzzz, THN 15-1215zzzzzz, THN 15-1225zzzzzz, THN 15-2415zzzzzz, THN 15-2425zzzzzz, THN 15-4815zzzzzz, THN 15-4825zzzzzz, THN 15-2415Wlzzzzzz, THN 15-2425Wlzzzzzz, THN 15-4815Wlzzzzzz, THN 15-4825Wlzzzzzz, THN 20-1215zzzzzz, THN 20-1225zzzzzz, THN 20-2415zzzzzz, THN 20-2425zzzzzz, THN 20-4815zzzzzz, THN 20-4825zzzzzz, THN 20-2415Wlzzzzzz, THN 20-2425Wlzzzzzz, THN 20-4815Wlzzzzzz, THN 20-4825Wlzzzzzz, THD 15-2410WINzzzzzz, THD 15-2411WINzzzzzz, THD 15-2412WINzzzzzz, THD 15-2413WINzzzzzz, THD 15-2421WINzzzzzz, THD 15-2422WINzzzzzz, THD 15-2423WINzzzzzz, THD 15-4810WINzzzzzz, THD 15-4811WINzzzzzz, THD 15-4812WINzzzzzz, THD 15-4813WINzzzzzz, THD 15-4821WINzzzzzz, THD 15-4822WINzzzzzz, THD 15-4823WINzzzzzz, THD 15-1210Nzzzzzz, THD 15-1211Nzzzzzz, THD 15-1212Nzzzzzz, THD 15-1213Nzzzzzz, THD 15-1221Nzzzzzz, THD 15-1222Nzzzzzz, THN 20-

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1213zzzzzz, THN 20-1222zzzzzz, THN 20-1223zzzzzz, THN 20-2410zzzzzz, THN 20-4813zzzzzz, THN 20-4822zzzzzz, THN 20-4823zzzzzz, THD 15-1223Nzzzzzz, THD 15-2410Nzzzzzz, THD 15-2411Nzzzzzz, THD 15-2412Nzzzzzz, THD 15-2413Nzzzzzz, THD 15-2421Nzzzzzz, THD 15-2422Nzzzzzz, THD 15-2423Nzzzzzz, THD 15-4810Nzzzzzz, THD 15-4811Nzzzzzz, THD 15-4812Nzzzzzz, THD 15-4813Nzzzzzz, THD 15-4821Nzzzzzz, THD 15-4822Nzzzzzz, THD 15-4823Nzzzzzz, THN 20-2410Wlzzzzzz, THN 20-2411Wlzzzzzz, THN 20-2412Wlzzzzzz, THN 20-2413Wlzzzzzz, THN 20-2422Wlzzzzzz, THN 20-2423Wlzzzzzz, THN 20-4810Wlzzzzzz, THN 20-4811Wlzzzzzz, THN 20-4812Wlzzzzzz, THN 20-4813Wlzzzzzz, THN 20-4822Wlzzzzzz, THN 20-4823Wlzzzzzz, THN 20-1210zzzzzz, THN 20-1211zzzzzz, THN 20-1212zzzzzz, THN 20-2411zzzzzz, THN 20-2412zzzzzz, THN 20-2413zzzzzz, THN 20-2422zzzzzz, THN 20-2423zzzzzz, THN 20-4810zzzzzz, THN 20-4811zzzzzz, THN 20-4812zzzzzz, THM 3-0510Wlzzzzzz, THM 3-0511Wlzzzzzz, THM 3-0512Wlzzzzzz, THM 3-0513Wlzzzzzz, THM 3-0515Wlzzzzzz, THM 3-0521Wlzzzzzz, THM 3-0522Wlzzzzzz, THM 3-0523Wlzzzzzz, THM 3-2410Wlzzzzzz, THM 3-2411Wlzzzzzz, THM 3-2412Wlzzzzzz, THM 3-2413Wlzzzzzz, THM 3-2415Wlzzzzzz, THM 3-2421Wlzzzzzz, THM 3-2422Wlzzzzzz, THM 3-2423Wlzzzzzz, THM 3-4810Wlzzzzzz, THM 3-4811Wlzzzzzz, THM 3-4812Wlzzzzzz, THM 3-4813Wlzzzzzz, THM 3-4815Wlzzzzzz, THM 3-4821Wlzzzzzz, THM 3-4822Wlzzzzzz, THM 3-0512WIAzzzzzz, THM 3-0513WIAzzzzzz, THM 3-0515WIAzzzzzz, THM 3-0521WIAzzzzzz, THM 3-0522WIAzzzzzz, THM 3-0523WIAzzzzzz, THM 3-2410WIAzzzzzz, THM 3-2411WIAzzzzzz, THM 3-2412WIAzzzzzz, THM 3-2413WIAzzzzzz, THM 3-2415WIAzzzzzz, THM 3-2421WIAzzzzzz, THM 3-2422WIAzzzzzz, THM 3-2423WIAzzzzzz, THM 3-4810WIAzzzzzz, THM 3-4811WIAzzzzzz, THM 3-4812WIAzzzzzz, THM 3-4813WIAzzzzzz, THM 3-4815WIAzzzzzz, THM 3-4821WIAzzzzzz, THM 3-4822WIAzzzzzz, THM 3-4823WIAzzzzzz, THM 3-1210zzzzzz, THM 3-1211zzzzzz, THM 3-1212zzzzzz, THM 3-1213zzzzzz, THM 3-1215zzzzzz, THM 3-1221zzzzzz, THM 3-1222zzzzzz, THM 3-1223zzzzzz, THM 3-2410zzzzzz, THM 3-2411zzzzzz, THM 3-2412zzzzzz, THM 3-2413zzzzzz, THM 3-2415zzzzzz, THM 3-2421zzzzzz, THM 3-2422zzzzzz, THM 3-2423zzzzzz, THM 3-4810zzzzzz, THM 3-4811zzzzzz, THM 3-4812zzzzzz, THM 3-4813zzzzzz, THM 3-4815zzzzzz, THM 3-4821zzzzzz, THM 3-4822zzzzzz, THM 3-4823zzzzzz, THM 3-1210Azzzzzz, THM 3-1211Azzzzzz, THM 3-1212Azzzzzz, THM 3-1213Azzzzzz, THM 3-1215Azzzzzz, THM 3-1221Azzzzzz, THM 3-1222Azzzzzz, THM 3-1223Azzzzzz, THM 3-2410Azzzzzz, THM 3-2411Azzzzzz, THM 3-2412Azzzzzz, THM 3-2413Azzzzzz, THM 3-2415Azzzzzz, THM 3-2421Azzzzzz, THM 3-2422Azzzzzz, THM 3-2423Azzzzzz, THM 3-4810Azzzzzz, THM 3-4811Azzzzzz, THM 3-4812Azzzzzz, THM 3-4813Azzzzzz, THM 3-4815Azzzzzz, THM 3-4821Azzzzzz, THM 3-4822Azzzzzz, THM 3-4823Azzzzzz, THM 3-0510WIOzzzzzz, THM 3-0511WIOzzzzzz, THM 3-0512WIOzzzzzz, THM 3-0513WIOzzzzzz, THM 3-0515WIOzzzzzz, THM 3-0521WIOzzzzzz, THM 3-0522WIOzzzzzz, THM 3-0523WIOzzzzzz, THM 3-2410WIOzzzzzz, THM 3-2411WIOzzzzzz, THM 3-2412WIOzzzzzz, THM 3-2413WIOzzzzzz, THM 3-2415WIOzzzzzz, THM 3-2421WIOzzzzzz, THM 3-2422WIOzzzzzz, THM 3-2423WIOzzzzzz, THM 3-4810WIOzzzzzz, THM 3-4811WIOzzzzzz, THM 3-4812WIOzzzzzz, THM 3-4813WIOzzzzzz, THM 3-0510WIAzzzzzz, THM 3-0511WIAzzzzzz, THM 3-4815WIOzzzzzz, THM 3-4821WIOzzzzzz, THM 3-4822WIOzzzzzz, THM 3-4823WIOzzzzzz, THM 3-0510WIOAzzzzzz, THM 3-0511WIOAzzzzzz, THM 3-0512WIOAzzzzzz, THM 3-0513WIOAzzzzzz, THM 3-0515WIOAzzzzzz, THM 3-0521WIOAzzzzzz, THM 3-0522WIOAzzzzzz, THM 3-0523WIOAzzzzzz, THM 3-2410WIOAzzzzzz, THM 3-2411WIOAzzzzzz, THM 3-2412WIOAzzzzzz, THM 3-2413WIOAzzzzzz, THM 3-2415WIOAzzzzzz, THM 3-2421WIOAzzzzzz, THM 3-2422WIOAzzzzzz, THM 3-2423WIOAzzzzzz, THM 3-4810WIOAzzzzzz, THM 3-4811WIOAzzzzzz, THM 3-4812WIOAzzzzzz,

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4815WIOAzzzzzz, THM 10-4821WIOAzzzzzz, THM 10-4822WIOAzzzzzz, THM 10-4823WIOAzzzzzz, THM 10-2411Ozzzzzz, THM 10-2412Ozzzzzz, THM 10-2413Ozzzzzz, THM 10-2415Ozzzzzz, THM 10-2421Ozzzzzz, THM 10-2422Ozzzzzz, THM 10-2423Ozzzzzz, THM 10-4810Ozzzzzz, THM 10-4811Ozzzzzz, THM 10-4812Ozzzzzz, THM 10-4813Ozzzzzz, THM 10-4815Ozzzzzz, THM 10-4821Ozzzzzz, THM 10-4822Ozzzzzz, THM 10-4823Ozzzzzz, THM 10-1210OAzzzzzz, THM 10-1211OAzzzzzz, THM 10-1212OAzzzzzz, THM 10-1213OAzzzzzz, THM 10-1215OAzzzzzz, THM 10-1221OAzzzzzz, THM 10-1222OAzzzzzz, THM 10-1223OAzzzzzz, THM 10-2410OAzzzzzz, THM 10-2411OAzzzzzz, THM 10-2412OAzzzzzz, THM 10-2413OAzzzzzz, THM 10-2415OAzzzzzz, THM 10-2421OAzzzzzz, THM 10-2422OAzzzzzz, THM 10-2423OAzzzzzz, THM 10-4810OAzzzzzz, THM 10-4811OAzzzzzz, THM 10-4812OAzzzzzz, THM 10-4813OAzzzzzz, THM 10-4815OAzzzzzz, THM 10-4821OAzzzzzz, THM 10-4822OAzzzzzz, THM 10-4823OAzzzzzz, TMR 6-2410WI zzzzzz, TMR 6-2411WI zzzzzz, TMR 6-2419WI zzzzzz, TMR 6-2412WI zzzzzz, TMR 6-2413WI zzzzzz, TMR 6-2415WI zzzzzz, TMR 6-2421WI zzzzzz, TMR 6-2422WI zzzzzz, TMR 6-2423WI zzzzzz, TMR 6-4810WI zzzzzz, TMR 6-4811WI zzzzzz, TMR 6-4819WI zzzzzz, TMR 6-4812WI zzzzzz, TMR 6-4813WI zzzzzz, TMR 6-4815WI zzzzzz, TMR 6-4821WI zzzzzz, TMR 6-4822WI zzzzzz, TMR 6-4823WI zzzzzz, TMR 6-2410WIHI zzzzzz, TMR 6-2411WIHI zzzzzz, TMR 6-2419WIHI zzzzzz, TMR 6-2412WIHI zzzzzz, TMR 6-2413WIHI zzzzzz, TMR 6-2415WIHI zzzzzz, TMR 6-2421WIHI zzzzzz, TMR 6-2422WIHI zzzzzz, TMR 6-2423WIHI zzzzzz, TMR 6-4810WIHI zzzzzz, TMR 6-4811WIHI zzzzzz, TMR 6-4819WIHI zzzzzz, TMR 6-4812WIHI zzzzzz, TMR 6-4813WIHI zzzzzz, TMR 6-4815WIHI zzzzzz, TMR 6-4821WIHI zzzzzz, TMR 6-4822WIHI zzzzzz, TMR 6-4823WIHI zzzzzz, TEP 75-7210Wlzzzzzz, TEP 75-7211Wlzzzzzz, TEP 75-2712Wlzzzzzz, TEP 75-7213Wlzzzzzz, TEP 75-7215Wlzzzzzz, TEP 75-7216Wlzzzzzz, TEP 75-7218Wlzzzzzz, TEN 30-2407Wlzzzzzz, TEN 30-2408Wlzzzzzz, TEN 30-2409Wlzzzzzz, TEN 30-2410Wlzzzzzz, TEN 30-2411Wlzzzzzz, TEN 30-2412Wlzzzzzz, TEN 30-2413Wlzzzzzz, TEN 30-2422Wlzzzzzz, TEN 30-2423Wlzzzzzz, TEN 30-4807Wlzzzzzz, TEN 30-4808Wlzzzzzz, TEN 30-4809Wlzzzzzz, TEN 30-4810Wlzzzzzz, TEN 30-4811Wlzzzzzz, TEN 30-4812Wlzzzzzz, TEN 30-4813Wlzzzzzz, TEN 30-4822Wlzzzzzz, TEN 30-4823Wlzzzzzz, TEQ75-2412WIR zzzzzz, TEQ75-2415WIR zzzzzz, TEQ75-2416WIR zzzzzz, TEQ75-2418WIR zzzzzz, TEQ75-4812WIR zzzzzz, TEQ75-4815WIR zzzzzz, TEQ75-4816WIR zzzzzz, TEQ75-4818WIR zzzzzz, TEQ75-7212WIR zzzzzz, TEQ75-7215WIR zzzzzz, TEQ75-7216WIR zzzzzz, TEQ75-7218WIR zzzzzz, TEQ100-2412WIR zzzzzz, TEQ100-2415WIR zzzzzz, TEQ100-2416WIR zzzzzz, TEQ100-2418WIR zzzzzz, TEQ100-4812WIR zzzzzz, TEQ100-4815WIR zzzzzz, TEQ100-4816WIR zzzzzz, TEQ100-4818WIR zzzzzz, TEQ100-7212WIR zzzzzz, TEQ100-7215WIR zzzzzz, TEQ100-7216WIR zzzzzz, TEQ100-7218WIR zzzzzz, TEQ160-4812WIR zzzzzz, TEQ160-4815WIR zzzzzz, TEQ160-4816WIR zzzzzz, TEQ160-4818WIR zzzzzz, TEQ160-7212WIR zzzzzz, TEQ160-7215WIR zzzzzz, TEQ160-7216WIR zzzzzz, TEQ160-7218WIR zzzzzz, TEQ200-4812WIR zzzzzz, TEQ200-4815WIR zzzzzz, TEQ200-4816WIR zzzzzz, TEQ200-4818WIR zzzzzz, TEQ200-7212WIR zzzzzz, TEQ200-7215WIR zzzzzz, TEQ200-7216WIR zzzzzz, TEQ200-7218WIR zzzzzz, TMR 9-2410Wlzzzzzz, TMR 9-2411Wlzzzzzz, TMR 9-2419Wlzzzzzz, TMR 9-2412Wlzzzzzz, TMR 9-2413Wlzzzzzz, TMR 9-2415Wlzzzzzz, TMR 9-2421Wlzzzzzz, TMR 9-2422Wlzzzzzz, TMR 9-2423Wlzzzzzz, TMR 9-4810Wlzzzzzz, TMR 9-4811Wlzzzzzz, TMR 9-4819Wlzzzzzz, TMR 9-4812Wlzzzzzz, TMR 9-4813Wlzzzzzz, TMR 9-4815Wlzzzzzz, TMR 9-4821Wlzzzzzz, TMR 9-4822Wlzzzzzz, TMR 9-4823Wlzzzzzz, TMR 9-1210zzzzzz, TMR 9-1211zzzzzz, TMR 9-1219zzzzzz, TMR 9-1212zzzzzz, TMR 9-1213zzzzzz, TMR 9-1215zzzzzz, TMR 9-1221zzzzzz, TMR 9-1222zzzzzz, TMR 9-1223zzzzzz, TMR 9-2410zzzzzz, TMR 9-2411zzzzzz, TMR 9-2419zzzzzz, TMR 9-2412zzzzzz,



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TMR 9-2413zzzzzz, TMR 9-2415zzzzzz, TMR 9-2421zzzzzz, TMR 9-2422zzzzzz, TMR 9-2423zzzzzz, TMR 9-4810zzzzzz, TMR 9-4811zzzzzz, TMR 9-4819zzzzzz, TMR 9-4812zzzzzz, TMR 9-4813zzzzzz, TMR 9-4815zzzzzz, TMR 9-4821zzzzzz, TMR 9-4822zzzzzz, TMR 9-4823zzzzzz, TEN 40-2410WIR zzzzzz, TEN 40-2411WIR zzzzzz, TEN 40-2412WIR zzzzzz, TEN 40-2413WIR zzzzzz, TEN 40-2415WIR zzzzzz, TEN 40-2422WIR zzzzzz, TEN 40-2423WIR zzzzzz, TEN 40-2425WIR zzzzzz, TEN 40-4810WIR zzzzzz, TEN 40-4811WIR zzzzzz, TEN 40-4812WIR zzzzzz, TEN 40-4813WIR zzzzzz, TEN 40-4815WIR zzzzzz, TEN 40-4822WIR zzzzzz, TEN 40-4823WIR zzzzzz, TEN 40-4825WIR zzzzzz, TEN 40-7210WIR zzzzzz, TEN 40-7211WIR zzzzzz, TEN 40-7212WIR zzzzzz, TEN 40-7213WIR zzzzzz, TEN 40-7215WIR zzzzzz, TEN 40-7222WIR zzzzzz, TEN 40-7223WIR zzzzzz, TEN 40-7225WIR zzzzzz, TEN 60-1210N zzzzzz, TEN 60-1211N zzzzzz, TEN 60-1212N zzzzzz, TEN 60-1213N zzzzzz, TEN 60-1215N zzzzzz, TEN 60-1222N zzzzzz, TEN 60-1223N zzzzzz, TEN 60-1225N zzzzzz, TEN 60-2410N zzzzzz, TEN 60-2411N zzzzzz, TEN 60-2412N zzzzzz, TEN 60-2413N zzzzzz, TEN 60-2415N zzzzzz, TEN 60-2422N zzzzzz, TEN 60-2423N zzzzzz, TEN 60-2425N zzzzzz, TEN 60-4810N zzzzzz, TEN 60-4811N zzzzzz, TEN 60-4812N zzzzzz, TEN 60-4813N zzzzzz, TEN 60-4815N zzzzzz, TEN 60-4822N zzzzzz, TEN 60-4823N zzzzzz, TEN 60-2410WIN zzzzzz, TEN 60-2411WIN zzzzzz, TEN 60-2412WIN zzzzzz, TEN 60-2413WIN zzzzzz, TEN 60-2415WIN zzzzzz, TEN 60-2422WIN zzzzzz, TEN 60-2423WIN zzzzzz, TEN 60-2425WIN zzzzzz, TEN 60-4810WIN zzzzzz, TEN 60-4811WIN zzzzzz, TEN 60-4812WIN zzzzzz, TEN 60-4813WIN zzzzzz, TEN 60-4815WIN zzzzzz, TEN 60-4822WIN zzzzzz, TEN 60-4823WIN zzzzzz, TEN 60-4825WIN zzzzzz, TEQ 300-4812WIR zzzzzz, TEQ 300-4813WIR zzzzzz, TEQ 300-4815WIR zzzzzz, TEQ 300-4816WIR zzzzzz, TEQ 300-4818WIR zzzzzz, TEQ 300-7212WIR zzzzzz, TEQ 300-7213WIR zzzzzz, TEQ 300-7215WIR zzzzzz, TEQ 300-7216WIR zzzzzz, TEQ 300-7218WIR zzzzzz, THN 15-2410WIRzzzzzz, THN 15-2411WIRzzzzzz, THN 15-2412WIRzzzzzz, THN 15-2413WIRzzzzzz, THN 15-2415WIRzzzzzz, THN 15-2421WIRzzzzzz, THN 15-2422WIRzzzzzz, THN 15-2423WIRzzzzzz, THN 15-2425WIRzzzzzz, THN 15-4810WIRzzzzzz, THN 15-4811WIRzzzzzz, THN 15-4812WIRzzzzzz, THN 15-4813WIRzzzzzz, THN 15-4815WIRzzzzzz, THN 15-4821WIRzzzzzz, THN 15-4822WIRzzzzzz, THN 15-4823WIRzzzzzz, THN 15-4825WIRzzzzzz, THN 15-7210WIRzzzzzz, THN 15-7211WIRzzzzzz, THN 15-7212WIRzzzzzz, THN 15-7213WIRzzzzzz, THN 15-7215WIRzzzzzz, THN 15-7221WIRzzzzzz, THN 15-7222WIRzzzzzz, THN 15-7223WIRzzzzzz, THN 15-7225WIRzzzzzz, THN 15-1210Nzzzzzz, THN 15-1211Nzzzzzz, THN 15-1212Nzzzzzz, THN 15-1213Nzzzzzz, THN 15-1215Nzzzzzz, THN 15-1221Nzzzzzz, THN 15-1222Nzzzzzz, THN 15-1223Nzzzzzz, THN 15-1225Nzzzzzz, THN 15-2410Nzzzzzz, THN 15-2411Nzzzzzz, THN 15-2412Nzzzzzz, THN 15-2413Nzzzzzz, THN 15-2415Nzzzzzz, THN 15-2421Nzzzzzz, THN 15-2422Nzzzzzz, THN 15-2423Nzzzzzz, THN 15-2425Nzzzzzz, THN 15-4810Nzzzzzz, THN 15-4811Nzzzzzz, THN 15-4812Nzzzzzz, THN 15-4813Nzzzzzz, THN 15-4815Nzzzzzz, THN 15-4821Nzzzzzz, THN 15-4822Nzzzzzz, THN 15-4823Nzzzzzz, THN 15-4825Nzzzzzz, TEN 20-1210zzzzzz, TEN 20-1211zzzzzz, TEN 20-1212zzzzzz, TEN 20-1213zzzzzz, TEN 20-1221zzzzzz, TEN 20-1222zzzzzz, TEN 20-1223zzzzzz, TEN 20-2410zzzzzz, TEN 20-2411zzzzzz, TEN 20-2412zzzzzz, TEN 20-2413zzzzzz, TEN 20-2421zzzzzz, TEN 20-2422zzzzzz, TEN 20-2423zzzzzz, TEN 20-4810zzzzzz, TEN 20-4811zzzzzz, TEN 20-4812zzzzzz, TEN 20-4813zzzzzz, TEN 20-4821zzzzzz, TEN 20-4822zzzzzz, TEN 20-4823zzzzzz, TEN 20-4833zzzzzz, TEN 20-4834zzzzzz, TEN 20-4831zzzzzz, TEN 20-4832zzzzzz, TEN 20-2411Wizzzzzz, TEN 20-2412Wizzzzzz, TEN 20-2413Wizzzzzz, TEN 20-2421Wizzzzzz, TEN 20-2422Wizzzzzz, TEN 20-2423Wizzzzzz, TEN 20-4811Wizzzzzz, TEN 20-4812Wizzzzzz, TEN 20-4813Wizzzzzz, TEN 20-4821Wizzzzzz, TEN 20-4822Wizzzzzz, TEN 20-4823Wizzzzzz, TEN 15-1210zzzzzz, TEN 15-

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