

Test Verification of Conformity

Verification Number: 221212002GZA-VOC001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Voltamp Transformers Oman SAOC. PO BOX no 75, Postal Code 124, Rusayl, Sultanate of Oman.
Product Description:	Three-phase, 2500 kVA, $(6000 \pm 2 \times 2.5\%)$ / 400 V (Ur), 50 Hz, ONAN, Dyn11, oil type transformer. The high voltage winding has 5 taps and the principal tap is tap 3.
Ratings & Principle Characteristics:	Rated power: 2500 kVA Rated voltage: $(6 \pm 2 \times 2.5\%)$ /0.4 kV
Models/Type References:	DC2035
Brand Name:	Oil Filled medium power Transformer
Serial No:	8852580
Relevant Standards/Directives:	EN 50708-1-1:2020; Directive 2009/125/EC
Verification Issuing Office Name & Address:	Intertek Testing Services (Guangzhou) Ltd. No. 3-1, Xinhai Xinyi Road, Huangge Town, Nansha District, Guangzhou City, China
Date of Tests:	29/05/2023
Test Report Number(s):	221212002GZA-001: 12 June 2023
Additional information in Appendix.	



Signature

Name: Jason Yan

Position: Manager

Date: 12 June 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 221212002GZA-VOC001

Manufacturer:

Voltamp Transformers Oman SAOC.
Road No 18 & 7, Rusayl industrial Area,P.C.124,PO Box 75,Rusayl,Muscat.



Signature

Name: Jason Yan

Position: Manager

Date: 12 June 2023



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VOLTAMP TRANSFORMERS OMAN SAOC TEST REPORT

SCOPE OF WORK

General Test Report

REPORT NUMBER

221212002GZA-001

ISSUE DATE

12-June-2023

REVISION DATE

None

NUMBER OF PAGES

10

DOCUMENT CONTROL NUMBER

General Test Report_TDE D

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TEST REPORT

Applicant's name	:	Voltamp Transformers Oman SAOC.		
Address	:	PO BOX no 75, Postal Code 124, Rusayl, Sultanate of Oman.		
Contact Name	:	Mr. Anwar Ali	E-Mail	: anwar@voltampoman.com
Manufacturer's name	:	Voltamp Transformers Oman SAOC		
Address	:	Road No 18 & 7, Rusayl industrial Area, P.C.124, PO Box 75, Rusayl, Muscat.		
Contact Name	:	Mr. Anwar Ali	E-Mail	: anwar@voltampoman.com
Test item description				
<i>Apparatus</i>	:	Three-phase, 2500 kVA, $(6000 \pm 2 \times 2.5\%)$ / 400 V (Ur), 50 Hz, ONAN, Dyn11, oil type transformer. The high voltage winding has 5 taps and the principal tap is tap 3.		
<i>Serial No</i>	:	8852580		
<i>Quantity of sample(s)</i>	:	1		
<i>Date of receipt of apparatus</i>	:	2023.05.29		
Testing specification and testing location				
<i>Test by</i>	:	Voltamp Power SAOC Post Box 690, Postal Code 322, Sohar, Sultanate of Oman		
<i>Test method</i>	:	EN 50708-1-1:2020;		
<i>Test conclusion</i>	:	These results are in compliance with EN 50708-1-1:2020.		
<i>Other information</i>	:	N/A		
<i>Date of test(s)</i>	:	29/05/2023		
<i>Remark</i>	:	- This test report is only for evaluation of the specified standard clauses listed in <u>Test method</u>. - Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.		

Prepared by:



Stephen Yu

Project Manager

Reviewed by:



Hero Luo

Technical Manager

The testing of this report is selected tests. The requirements and tolerances permitted by this report are related to testing of a test sample submitted by the manufacturer for that purpose. Compliance of the test sample does not ensure compliance of the whole production of a manufacturer.

Possible test case verdicts:

- test case does not apply to the test object: N/A
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)

General remark:

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Throughout this report a ☒ comma ☐ point is used as the decimal separator.

Form for data requested

Type of transformer	Three phase power transformer
Frequency	50 Hz
Phase number	3
Rated power	2500 kVA
Cooling system	ONAN
Rated voltage HV winding	6 kV
Rated voltage LV winding	0.4 kV
Tapping range	$\pm 2 \times 2.5\%$
Total range of tapping	$\pm 5\%$
Connection symbol	Dyn11
Type of tap changer	De-energized tap changer
Voltage regulation winding	HV
P ₀ , the measured no load loss at rated voltage and rated frequency, on the rated tap	1518.0 W
P _{c0} , the measured electrical power required by the cooling system for no load operation (if any) derived from the type test measurements of the power taken by the fan and liquid pump motors	0 W
P _k , the measured loss at rated current and rated frequency on the rated tap corrected to reference temperature	18326.0 W
Ref. temperature for the load loss	75 °C
Core Material	Silicon steel
Core mass	2042 kg
Conductor material	Copper
Conductor mass	1692 kg
Manufacturer	Voltamp Transformers Oman SAOC Road No 18 & 7, Rusayl industrial Area,P.C.124,PO Box 75,Rusayl,Muscat.
Year of manufacturing	2023.05
Reasons for exception from minimum PEI	N/A

Test and verification results:

Clause	Ecodesign requirements	Result - Remark	Verdict
1	Minimum energy performance or efficiency requirements for medium power transformers	-	-
	Medium power transformers shall comply with the maximum allowed load and no-load losses or the Peak Efficiency Index (PEI) values set out in Tables I.1 to I.5, excluding medium power pole-mounted transformers, which shall comply with the maximum allowed load and no-load losses values set out in Table I.6	-	-
1.1	Requirements for three-phase medium power transformers with rated power ≤ 3150 kVA	-	-
	Tier 1 (1 July 2015): Maximum load and no-load losses (in W) for three-phase liquid-immersed medium power transformers with one winding with $U_m \leq 24$ kV and the other one with $U_m \leq 1.1$ kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 2 (1 July 2021): Maximum load and no-load losses (in W) for three-phase liquid-immersed medium power transformers with one winding with $U_m \leq 24$ kV and the other one with $U_m \leq 1.1$ kV Max $P_k = 18500$ W Max $P_o = 1575$ W	$P_k = 18326$ W $P_o = 1518$ W	Pass
	Tier 1 (1 July 2015): Maximum load and no-load losses (in W) for three - phase dry-type medium power transformers with one winding with $U_m \leq 24$ kV and the other one with $U_m \leq 1.1$ kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 2 (1 July 2021): Maximum load and no-load losses (in W) for three - phase dry-type medium power transformers with one winding with $U_m \leq 24$ kV and the other one with $U_m \leq 1.1$ kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Correction of load and no-load losses in case of other combinations of winding voltages or dual voltage in one or both windings (rated power ≤ 3150 kVA)	-	-
	Tier 1 (1 July 2015): The maximum allowable losses in Table I.1 and Table I.2 were no correction for one winding with $U_m \leq 24$ kV and the other with $U_m > 3.6$ kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 2 (1 July 2021): The maximum allowable losses in Table I.1 and Table I.2 were no correction for one winding with $U_m \leq 24$ kV and the other with $3U_m > 3.6$ kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A

Clause	Ecodesign requirements	Result - Remark	Verdict
1.1	Requirements for three-phase medium power transformers with rated power ≤ 3150 kVA	-	-
	Tier 1 (1 July 2015): The maximum allowable losses in Table I.1 and Table I.2 can be increased by 15 % for no load loss and by 10 % for load loss for load losses for one winding with $U_m=36$kV and the other with $U_m \leq 3.6$kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 2 (1 July 2021): The maximum allowable losses in Table I.1 and Table I.2 can be increased by 15 % for no load loss and by 10 % for load loss for load losses for one winding with $U_m=36$kV and the other with $U_m \leq 3.6$kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 1 (1 July 2015): The maximum allowable losses in Table I.1 and Table I.2 can be increased by 15 % for no load loss and by 10 % for load loss for load losses for one winding with $U_m=36$kV and the other with $U_m > 3.6$kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 2 (1 July 2021): The maximum allowable losses in Table I.1 and Table I.2 can be increased by 15 % for no load loss and by 10 % for load loss for load losses for one winding with $U_m=36$kV and the other with $U_m > 3.6$kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 1 (1 July 2015): The maximum allowable losses in Table I.2 can be increased by 20 % for no load loss and by 15 % for load loss for load losses for one winding with $U_m=36$kV and the other with $U_m > 3.6$kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Tier 2 (1 July 2021): The maximum allowable losses in Table I.2 can be increased by 20 % for no load loss and by 15 % for load loss for load losses for one winding with $U_m=36$kV and the other with $U_m > 3.6$kV Max $P_k =$ W Max $P_o =$ W	$P_k =$ W $P_o =$ W	N/A
	Correction factors to be applied to the load and no load losses indicated in Tables I.1, I.2 and I.6 for medium power transformers with dual voltage in one or both windings differing more than 10 % and rated power ≤ 3150 kVA.	-	-

Clause	Ecodesign requirements	Result - Remark	Verdict
1.1	Requirements for three-phase medium power transformers with rated power ≤ 3150 kVA	-	-
	Tier 1 (1 July 2015): Dual voltage on one winding with reduced power output on the lower low-voltage winding AND maximum available power on the lower voltage of the low- voltage winding limited to 0,85 of the rated power assigned to the low-voltage winding at its higher voltage. Max P_k= W Max P_o= W	P_k= W P_o= W	N/A
	Tier 2 (1 July 2021): Dual voltage on one winding with reduced power output on the lower low-voltage winding AND maximum available power on the lower voltage of the low- voltage winding limited to 0,85 of the rated power assigned to the low-voltage winding at its higher voltage. Max P_k= W Max P_o= W	P_k= W P_o= W	N/A
	Tier 1 (1 July 2015): Dual voltage on one winding with reduced power output on the lower high-voltage winding AND maximum available power on the lower voltage of the high- voltage winding limited to 0,85 of the rated power assigned to the high-voltage winding at its higher voltage. Max P_k= W Max P_o= W	P_k= W P_o= W	N/A
	Tier 2 (1 July 2021): Dual voltage on one winding with reduced power output on the lower high-voltage winding AND maximum available power on the lower voltage of the high- voltage winding limited to 0,85 of the rated power assigned to the high-voltage winding at its higher voltage. Max P_k= W Max P_o= W	P_k= W P_o= W	N/A
	Tier 1 (1 July 2015): The maximum allowable losses can be increased by 15 % for no load losses and by 10 % for load losses for Dual voltage on one winding AND full rated power available on both windings, i.e., the full nominal power is available regardless of the combination of voltages. Max P_k= W Max P_o= W	P_k= W P_o= W	N/A
	Tier 2(1 July 2021): The maximum allowable losses can be increased by 15 % for no load losses and by 10 % for load losses for Dual voltage on one winding AND full rated power available on both windings, i.e., the full nominal power is available regardless of the combination of voltages. Max P_k= W Max P_o= W	P_k= W P_o= W	N/A

Clause	Ecodesign requirements	Result - Remark	Verdict
1.1	Requirements for three-phase medium power transformers with rated power ≤ 3150 kVA	-	-
	Tier 1 (1 July 2015): The maximum allowable losses can be increased by 25 % for no load losses and by 20 % for load losses for Dual voltage on both windings AND rated power available on all combinations of windings, i. e., both voltages on one winding are fully rated in combination with one of the voltages on the other winding. Max P_k= W Max P_o= W	P_k = W P_o = W	N/A
	Tier 2(1 July 2021): The maximum allowable losses can be increased by 25 % for no load losses and by 20 % for load losses for Dual voltage on both windings AND rated power available on all combinations of windings, i. e., both voltages on one winding are fully rated in combination with one of the voltages on the other winding. Max P_k= W Max P_o= W	P_k = W P_o = W	N/A
1.2	Requirements for medium power transformers with rated power > 3150 kVA	-	-
	Tier 1 (1 July 2015): Minimum Peak Efficiency Index (PEI) values for liquid-immersed medium power transformers Min PEI = %	PEI= %	N/A
	Tier 2 (1 July 2021): Minimum Peak Efficiency Index (PEI) values for liquid-immersed medium power transformers Min PEI = %	PEI= %	N/A
	Tier 1 (1 July 2015): Minimum Peak Efficiency Index (PEI) values for dry type medium power transformers Min PEI = %	PEI= %	N/A
	Tier 2 (1 July 2021): Minimum Peak Efficiency Index (PEI) values for dry type medium power transformers Min PEI = %	PEI= %	N/A
1.3	Requirements for medium power transformers with rated power ≤ 3150 kVA equipped with tapping connections suitable for operation while being energised or on-load for voltage adaptation purposes. Voltage Regulation Distribution Transformers are included in this category.	-	-
	Tier 1 (1 July 2015): Maximum allowable levels of losses set out in Table I.1 and I.2 shall be increased by 20 % for no load losses and 5 % for load losses in Tire 1 and by 10 for no load loss in Tier 2. Max P_k= W Max P_o= W	P_k = W P_o = W	N/A

Clause	Ecodesign requirements	Result - Remark	Verdict
1.3	Requirements for three-phase medium power transformers with rated power ≤ 3150 kVA	-	-
	Tier 2 (1 July 2021): Maximum allowable levels of losses set out in Table I.1 and I.2 shall be increased by 20 % for no load losses and 5 % for load losses in Tire 1 and by 10 for no load loss in Tier 2. Max P _k = W Max P _o = W	P _k = W P _o = W	N/A
1.4	Requirements for medium power pole-mounted transformers	-	-
	Tier 1 (1 July 2015): Maximum load and no-load loss (in W) for medium power liquid immersed pole-mounted transformers. Max P _k = W Max P _o = W	P _k = W P _o = W	N/A
	Tier 2 (1 July 2021): Maximum load and no-load loss (in W) for medium power liquid immersed pole-mounted transformers. Max P _k = W Max P _o = W	P _k = W P _o = W	N/A
2	Minimum energy efficiency requirements for large power transformers	-	-
	The minimum efficiency requirement for large power transformers are set out in Tables I.7, I.8 and I.9.	-	-
	Minimum Peak Efficiency Index requirements for liquid immersed large power transformers	-	-
	Tier 1 (1 July 2015): Minimum Peak Efficiency Index (PEI) values for liquid-immersed large power transformers Min PEI = %	PEI= %	N/A
	Tier 1 (1 July 2021): Minimum Peak Efficiency Index (PEI) values for liquid-immersed large power transformers Min PEI = %	PEI= %	N/A
	Tier 1 (1 July 2015): Minimum Peak Efficiency Index (PEI) values for dry-type large power transformers with U _m ≤36 kV Min PEI = %	PEI= %	N/A
	Tier 1 (1 July 2021): Minimum Peak Efficiency Index (PEI) values for dry-type large power transformers with U _m ≤36 kV Min PEI = %	PEI= %	N/A
	Tier 1 (1 July 2015): Minimum Peak Efficiency Index (PEI) values for dry-type large power transformers with U _m >36 kV Min PEI = %	PEI= %	N/A
	Tier 1 (1 July 2021): Minimum Peak Efficiency Index (PEI) values for dry-type large power transformers with U _m >36 kV Min PEI = %	PEI= %	N/A

Nameplate Drawing:



VOLTAMP TRANSFORMERS OMAN SAOC
P.O.BOX 75, POSTAL CODE : 124,
RUSAYL INDUSTRIAL ESTATE
SULTANATE OF OMAN



فولتامب العمانية للمحولات ش م ع م
من ب: 75 الرمز البريدي: 124
منطقة الرسل الصناعية، سلطنة عمان

TRANSFORMER SPECIFICATION REFERENCE : IEC 60076 AND EN 50708-1-1
TRANSFORMATORIAUS SPECIFIKACIJOS NUORODA : IEC 60076 AND EN 50708-1-1



TYPE OF COOLING AUŠINIMO TIPAS RATED POWER VARDINĖ GALIA RATED VOLTAGE AT NO LOAD VARDINĖ ĮTAMPA BE APKROVOS <u>RATED LINE VARDINĖ SROVĖ</u> CURRENT SROVĖ OIL TEMP. RISE ALYVOS TEMPERATŪROS PRIEAGIS WINDING TEMP. RISE APVIJOS TEMPERATŪROS PRIEAGIS NO. OF PHASES FAZIŲ SKAIČIUS CONNECTION SYMBOL JUNGTIŲ SIMBOLIS FREQUENCY DAŽNIS IMPEDANCE VOLTAGE AT PRINCIPAL TAP VARŽOS ĮTAMPA TIES PAGRINDINE ATŠAKA CORE MATERIAL ŠERDIS MEDŽIAGOS WINDING MATERIALS: APVIJŲ MEDŽIAGOS: MAKER'S REF./SERIAL NO. GAMINTOJO NUORODA / SERIJOS NR. PROJECT NAME PROJEKTO PAVADINIMAS CLIENT'S NAME UŽSAKOVO PAVADINIMAS CONTRACT NAME & P.O. NO. SUTARTIES PAVADINIMAS IR PIRKIMO UŽSAKYMO NR.	ONAN kVA 2500 HV 6.0 LV 0.400 HV 240.6 LV 3608.5 °C 60 °C 65 3 Dyn11 Hz 50 % * SILICON STEEL SILICIO PLIENAS COPPER VARIS DC 2035 RESIDUE HYDROCRACKING UNIT (RHCU) ŽALIAVOS LIKŪČIO KONVERSIJOS ĮRENGINYS ORLEN Lietuva „ORLEN LIETUVA“ PETROFAC „PETROFAC“	INSULATION LEVELS IZOLIACIJOS LYGIAI Um : 7.2 / LI : 60 / AC : 20 Um : <1.1 / LI : - / AC : 3 LI : - / AC : 3 WEIGHT OF CORE & WINDING SERDIS IR APVIJOS SVORIS CORE WEIGHT: SERDIS SVORIS: WINDING WEIGHT: APVIJOS SVORIS: WEIGHT OF TANK & FITTINGS TALPYKLOS IR JUNGIAMŲJŲ DETALIŲ SVORIS WEIGHT OF OIL ALYVOS SVORIS TOTAL WEIGHT BENDRAS SVORIS QUANTITY OF OIL ALYVOS KIEKIS YEAR OF MANUFACTURE PAGAMINIMO METAI AMBIENT TEMPERATURE APLINKOS TEMPERATŪRA TYPE OF OIL ALYVOS TIPAS TYPE OF TAP CHANGER ATŠAKOS KEITIKLIO TIPAS TAG NO. : * ZYMENS NR. : *	Um : 7.2 / LI : 60 / AC : 20 Um : <1.1 / LI : - / AC : 3 LI : - / AC : 3 3800 2042 1692 1850 900 6550 1060 * °C -36 TO +33 NYNAS GEMINI X OIL „NYNAS GEMINI X“ ALYVA OFF CIRCUIT TAP CHANGER ATJUNGTO GRANDINĖS ATŠAKOS KEITIKLIUS * *
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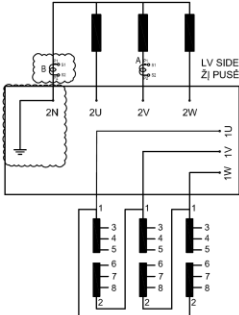
NO LOAD LOSS:
JOKIŲ APKROVOS NUOSTOLIŲ:

WATT 1518

LOAD LOSS:
APKROVOS PRARADIMAS:

WATT 18326

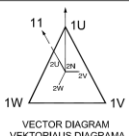
**DIAGRAM OF CONNECTION
PRIJUNGIMO SCHEMA**



**HV OFF CIRCUIT TAP CHANGER
AJ ATJUNGTO GRANDINĖS ATŠAKOS KEITIKLIUS**

TAP POSN. ATŠAKOS NR.	LEAD CONNECT LAIDO JUNGTIŲ	HV SIDE AJ PUSĖ		LV SIDE ZJ PUSĖ	
		VOLTAGE ĮTAMPA (Volts)	LINE CURRENT LINIJOS SROVĖ (Amps)	VOLTAGE ĮTAMPA (Volts)	LINE CURRENT LINIJOS SROVĖ (Amps)
1	5 - 6	6300	229.1	400	3608.5
2	6 - 4	6150	234.7		
3	4 - 7	6000	240.6		
4	7 - 3	5850	246.7		
5	3 - 8	5700	253.2		

**VECTOR DIAGRAM
VEKTORIAUS DIAGRAMA**



CT DETAILS / CT DUOMENYS

LOCATION VIETA	CT	CORE ŠERDIS	CURRENT RATIO SROVĖS SANTYKIS	ACCURACY CLASS TIKSLUMO KLASĖ	BURDEN APKROVA (VA)	PURPOSE TIKSLAS	SECONDARY TERMINALS ANTRINIAI GNYBIAI
LV 'V' PHASE Zj 'V' FAZĖ	A	CORE1 SERDIS1	3609/2A	5	10	LV WT1 Zj WT1	S1,S2
LV 'N' CT - 1 Zj 'N' CT - 1	B	CORE1 SERDIS1	4000/5A	5P20	15	SEF CT	S1,S2

MADE IN SULTANATE OF OMAN
PAGAMINTA OMANO SULTONATE

صنع في سلطنة عمان

WARNING: "DE-ENERGIES THE TRANSFORMER BEFORE OPERATING TAP SWITCH"
ISPĖJIMAS: „PRIEŠ PERJUNGDAMĮ ATŠAKOS JUNGIKLĮ, IŠJUNKITE TRANSFORMATORIŲ“

***** End of report *****