

TEST RESULTS

Transformer Serial no. 2813612211001

Measurement of short-circuit impedance and load loss Tap 1, HV to LV windings

Tap 1	Before short-circuit tests	After short-circuit tests
Average line voltage	11069 V	11604 V
Average line current	134.83 A	141.23 A
Total power	60304 W	65390 W
Average oil temperature	14.8 °C	13.8 °C
Reference temperature	75 °C	75 °C
Load loss at reference temperature @ 66 MVA	262176 W	260266 W
Impedance at reference temperature @ 66 MVA	47.40 Ω	47.44 Ω
Percent impedance at reference temperature @ 66 MVA	14.84 %	14.85 %
X/R ratio at reference temperature	37.34	37.65
Date of Tests:	24 February 2023	28 February 2023

Measurement of short-circuit impedance and load loss Tap 9B, HV to LV windings

Tap 9B	Before short-circuit tests	After short-circuit tests
Average line voltage	9993 V	10722 V
Average line current	152.80 A	163.57 A
Total power	63711 W	72680 W
Average oil temperature	14.8 °C	13.8 °C
Reference temperature	75 °C	75 °C
Load loss at reference temperature @ 66 MVA	264270 W	263711 W
Impedance at reference temperature @ 66 MVA	37.76 Ω	37.85 Ω
Percent impedance at reference temperature @ 66 MVA	14.30 %	14.34 %
X/R ratio at reference temperature	35.71	35.87
Date of Tests:	24 February 2023	28 February 2023

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Measurement of short-circuit impedance and load loss Tap 17, HV to LV windings

Tap 17	Before short-circuit tests	After short-circuit tests
Average line voltage	38961 V	9045 V
Average line current	165.93 A	167.28 A
Total power	72815 W	73500 W
Average oil temperature	14.8 °C	13.8 °C
Reference temperature	75 °C	75 °C
Load loss at reference temperature @ 66 MVA	318464 W	317317 W
Impedance at reference temperature @ 66 MVA	31.18 Ω	31.22 Ω
Percent impedance at reference Temperature @ 66 MVA	14.58 %	14.60 %
X/R ratio at reference temperature	30.20	30.35
Date of Tests:	24 February 2023	28 February 2023

Photograph no.: P003