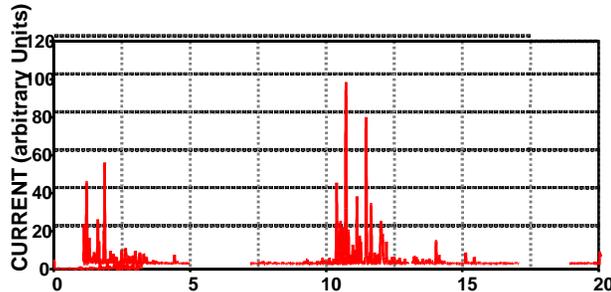


Case Study: Generator



70 MW, 10.5 kV, 3881 A, 3600 rpm

Purpose of Testing: Machine is in operation for past 20 years, customer requested measurements during major outage

Results - PDCA Test

- IR - 1150 Mohm (> 100)
- PI - 4.83 (> 2)
- Q1 - 15.25 % (7%)
- Q2 - 13.38 % (10%)
- Q1/Q2 - 114 % (60%)
- Q3 - 35.6 % (20%)
- DR - 1.64 (1.25)

Key Findings: LEAP Standard indicated Contamination observed Slot PD suspected, looseness of coil/wedges likely

Recommendation: Customer advised to rewind the generator within 10,000 hours

Benefits: *Catastrophic failure avoided*