

INDAR (ANAMUR ALAKÖPRÜ HES)
17325 KVA GENERATOR TEST REPORT
05-04-2017



MÜŞTERİ/ Customer : İNDAR (ANAMUR ALAKÖPRÜ HES)

CİHAZ/Equipment : GENERATÖR

Us (V) : 10500

P (kW / HP) :

MARKA/Manuf. : İNDAR

Is (A) : 952,6

DEVİR / RPM : 428,57

TİP/Type : PSA - 1600 - Z /14

Ur (V) :

CosØ : 0,85

SERİ NO/Serial No : 3010000492

Ir (A) :

S (kVA) : 17325

ELECTRICAL DIAGNOSTIC REPORT

17325 KVA INDAR GENERATOR HAS BEEN ELECTRICALLY AND VISUALLY INSPECTED AFTER SHORT CIRCUIT PROBLEM AND WATER LEAKAGE DAMAGE ON HEAT EXCHANGER.



EXECUTED INSPECTIONS

STATOR COILS INSULATION TESTS ARE PERFORMED.



MEGGER TESTİ (MΩ)	U1 - ŞASE	V1 - ŞASE	W1 - ŞASE	
GERİLİM/Voltage V	1000	1000	1000	
SICAKLIK/Temp. °C	24	24	24	
ZAMAN/Time (sn.-sec.)	15.	5,3	39	736
	30.	6	41	992
	45.			
	60.	6,81	43,5	1210

STATOR COILS INSULATION RESISTANCE VALUES ARE MEASURED.

DC DİRENÇ	ST. U1- U2	V1 - V2	W1 - W2
SICAKLIK °C	24	24	24
AKIM A	15	15	15
DC Direnç mΩ	21,102	21,234	21,330

ROTOR POLES INSULATION RESISTANCE VALUES ARE MEASURED.



MEGGER TESTİ (MΩ)	ROTOR - Ş	
GERİLİM/Voltage V	500	
SICAKLIK/Temp. °C	24	
ZAMAN/Time (sn.-sec.)	15.	1230
	30.	2060
	45.	
	60.	3270

ROTOR COIL INSULATION VALUES ARE MEASURED.

ROTOR DİRENCİ	mΩ	645,35
SARGI SICAKLIĞI/Winding Temperature	°C	24

EXCITER STATOR INSULATION VALUES ARE MEASURED.

MEGGER TESTİ (MΩ)		EXC.ST. - Ş
GERİLİM/Voltage	V	500
SICAKLIK/Temp.	°C	24
ZAMAN/Time (sn.-sec.)	15.	4260
	30.	4590
	45.	
	60.	4960

EXCITER STATOR COIL RESISTANCE VALUES ARE MEASURED.



EXCİTER STATOR DİRENCİ	Ω	7,6595
SARGI SICAKLIĞI/Winding Temperature	°C	24

EXCITER ROTOR INSULATION VALUES ARE MEASURED.

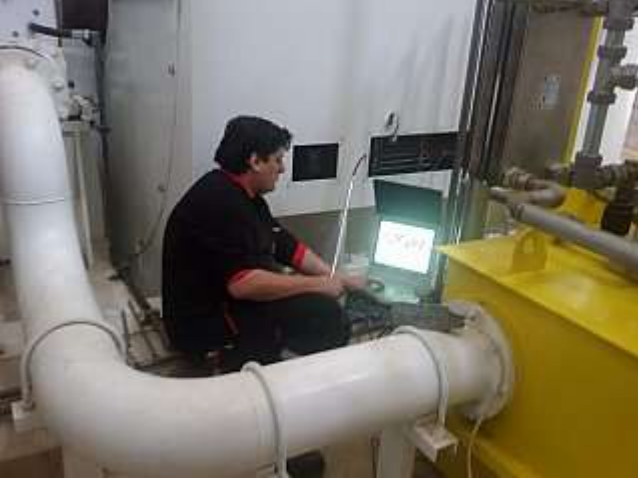


MEGGER TESTİ (MΩ)	EXC.RT. - Ş	
GERİLİM/Voltage V	500	
SICAKLIK/Temp. °C	24	
ZAMAN/Time (sn.-sec.)	15.	685
	30.	1100
	45.	
	60.	1460

EXCITER ROTOR COIL RESISTENCE VALUES ARE MEASURED.

DC DİRENÇ	EXC.RT. U -V	V - W	U - W
SICAKLIK °C	24	24	24
AKIM A	5	5	5
DC Direnç mΩ	28,166	28,330	28,332

DURING VISUAL INSPECTIONS WITH OUR BOROSCOPE DEVICE NO DAMAGE HAS BEEN DETECTED EXCEPT THE SHORT CIRCUIT POINT ON MAIN GENERATOR STATOR.



BOROSCOPE SCREEN VIEWS



ÖZGÜR
Motor & Generatör





DETECTED DAMAGES AND WORKS TO BE DONE FOR REPAIRING

- 1- DURING INSPECTIONS AND MEASUREMENTS IT HAS BEEN DETECTED THAT THERE WAS A WATER LEAKAGE IN COOLING HEAT EXCHANGER AND IT HAS CAUSED A SHORT CIRCUIT AND EXPLOSION ON END-POINTS OF CABLES FROM STATOR COIL TO THE POWER TERMINAL BOX.



2- AFTER SHORT CIRCUIT AND EXPLOSION, THERE HAS BEEN CARBONIZED AND BURNED INSULATION POINT.





3- END-POINTS OF CABLES FROM STATOR COIL TO THE POWER TERMINAL BOX SHALL BE CLEANED AND INSULATIONS SHALL BE REPLACED.





4- AFTER INSULATIONS AND REPAIR WORKS REPAIRED POINT MUST BE VARMISHED AND DRIED.