

Generator Test Report

General information			
Customer:	DIESEL POWER HOLLAND	Customer order number:	DPH106225
Date:	26-11-2024	EMRI order number:	32240333

Generator details			
Make:	CATERPILLER	Power:	343 kVA
Type:	SR4	Voltage:	440 V
Serial number:	6BA03968	Current:	450 A
AVR type:	VR3	Frequency:	60 Hz
Enclosure:		Rotation speed:	1800 rpm
Insulation Class:	F	Excitation:	35 V 7,2 A

Test Results							
Megger test				Heatrun			
Megger voltage:	1000	V		Time	Current (A)	Air-out °C	Ambient °C
Stator:	>2000	MΩ		8:00	-	-	-
Rotor:	>2000	MΩ		8:30	-	-	-
Exciter Stator:	>2000	MΩ		9:00	-	-	-
Exciter Rotor:	>2000	MΩ		9:30	-	-	-
High voltage test				10:00	-	-	-
Test voltage:	-	V		10:30	-	-	-
Duration:	-	Sec.		11:00	-	-	-
☐ U-phase / earth	☐ W-phase / earth			11:30	-	-	-
☐ V-phase / earth	☐ Rotor / earth			12:00	-	-	-
Excitation				Temperature rise ΔT			
"NO Load"	5,1	V	A	R ₁ = cold resistance U-V:		-	Ω
"50% Load"	15,4	V	A	R ₂ = warm resistance U-V:		-	Ω
"100% Load"	26,0	V	A	$\Delta T = \frac{R_2}{R_1} - 1 =$			
"120% Load"	32,2	V	A				
"120% Overspeed"	4,8	V	A				
Field resistance:	4,2	Ω					

Analyzer Testdata									
"NO Load"					"NO Load"	"120% Load"			
	Power:		0	kVA			Power:	412	kVA
	Voltage:		444	V			Voltage:	425	V
	Current:		0	A			Current:	560	A
	Frequency:		60,1	Hz			Frequency:	60,1	Hz
	Power factor:			φ			Power factor:		φ
"50% Load"					"50% Load"	"120% Overspeed"			
	Power:		184	kVA			Power:	0	kVA
	Voltage:		437	V			Voltage:	476	V
	Current:		243	A			Current:	0	A
	Frequency:		60,0	Hz			Frequency:	65,2	Hz
	Power factor:			φ			Power factor:		φ
"100% Load"					"100% Load"	Remarks			Remarks
	Power:		346	kVA					
	Voltage:		429	V					
	Current:		466	A					
	Frequency:		60,0	Hz					
	Power factor:			φ					

Acceptance test approval			
Whitnessed by:	Stamp/Signature:	Certificate number:	
EMRI		32240333	
Repair Engineer(s):	Test Engineer(s):		
DZU	JMY		