ATTACHMENT 1

Starter-Generator Acceptance Test Data Sheets

Left Engine, Serial Number 425AB

MG94A-1 ACCEPTANCE TEST DATA SHEET PER ATPMG94A-1 REV. J

WORK ORDER # ENC	PER ATPMG94A-1 F	PER ATPMG94A-1 REV. J	
DATE TESTED: 9-9-		HICPECTED BY	
-		INSPECTED BY:	
SERIAL NUMBER:) A13	MOD	

SERIAL NUMBER: - 75 A13	MOD:	
	NON-OPERATING (10.0)	
TEST (SECTION)	REQUIREMENTS	INITIAL OR RECORD
Brush Seating (10.1)	100% seating all brushes	Inspected by:
End Play (10.2)	End Play .039 ± .005 in.	Measured Dim. Inches:Inspected By:
Dielectric Strength (10.3)	600 vrm , 2mA Max current leakage	Inspected by:
Insulation Resistance (10.4)	200 VDC applied to "E" terminal, 100 Mega Ohm min. Resistance	M□ Inspected by:
Visual Inspection (10.5)	Workmanship and visual defects, Drive shaft output dim. (1.58±.06)	Inspected by: (CT) Output Dim.= 1, (c) inches
Retainer Screw Torque (10.5)	Verify torque to be 10 ± 2 in-lbs	Inspected by:
	STARTER PERFORMANCE (11.0)	
TEST SECTION (11.0)	REQUIREMENTS	INITIAL OR RECORD
Starter Performance (11.0)	24VDC ±0.25 VDC, Accelerate to 4700 rpm within 30 seconds	Start time= 11.7 (30 sec.max) Inspected by: $\sqrt{3}$?
	GENERATOR PERFORMANCE (12.0)	1 V3/2
TEST (SECTION)	REQUIREMENTS	INITIAL OR RECORD
Generator Compounding (12.1)	12,000 RPM ±100 RPM, 30 VDC ±0.1 VDC at terminals, Record shunt field current at 100, 200, 300, 350 Amp loads (Shunt field current should increase with load)	100 Amp load: 2 Amps 200 Amp load: 2 Amps 300 Amp load: 2 Amps 350 Amp load: 3 Amps Inspected by:
Temperature Stabilization and Equalizing Voltage (12.2)	12,000 RPM ±100 RPM, 300 Amps ±5 Amps, 30 VDC ±0.1 VDC at terminals (B to E). D to E volts shall be within Fig. 4 limits.	Inlet Air Temp.= 102.6 DF D to E Voltage= 1.47 VDC Within figure 4 limits? 4.5 Inspected by: 4.7
Commutation (12.3)	Pin point sparking: .125 max, length from trailing edge	Inspected by: 1
High Continuous Test (12.4)	8,000 RPM +100/-0 RPM, 30.0 VDC, ±0.1 VDC at terminals, 300 Amps ±5 Amps load	Shunt field current= 1.8 Amps. (10 Amps max. allowed) Inspected by:
Minimum Speed for Regulation (12.5)	6575 RPM ±100 RPM, 30.0 VDC ±0.1 VDC at terminals, 300 Amps ±5 Amps load	Shunt field current= 8, Amps. (10 Amps max. allowed) Inspected by:
Overspeed (12.6)	14,000 RPM ±100 RPM, No load, No excessive noise, vibration or loosening of parts.	Inspected by:
Overload (12.7)	8000 RPM, 487±5 Amps for two minutes.	Inspected By:
Magnetic Speed Pickoff (12.8)	7,000 RPM ±100 RPM, (2.0 volts minimum peak to peak voltage)	Peak to Peak Volts= 3.60 Volts Inspected by:
Commutator Run Out (12.9)	Run out must be less then 0.0003 inch between adjacent commutator bars. Total run out of commutator must be less then 0.0007 inch.	0.0003 inch. Commutator bars: ・0つつう 0.0007 inch Commutator run out: _00つ Inspected By: 「おり

Right Engine, Serial Number 461AB

MG94A-1 ACCEPTANCE TEST DATA SHEET PER ATPMG94A-1 REV. J

WORK	ORDER#	Eng

DATE TESTED: 9-9-13

INSPECTED BY: TOROGO 2 461 AB SERIAL NUMBER: **NON-OPERATING (10.0) TEST (SECTION)** REQUIREMENTS **INITIAL OR RECORD** Brush Seating (10.1) 100% seating all brushes Inspected by: End Play (10.2) End Play .039 ± .005 in. Measured Dim. Inches: Inspected By: Dielectric Strength (10.3) 600 vrm , 2mA Max current leakage Inspected by: Insulation Resistance (10.4) 200 VDC applied to "E" terminal, 100 Mega Ohm min. Resistance Inspected by: Visual Inspection (10.5) Workmanship and visual defects, Drive Inspected by: 1313 shaft output dim. (1.58±.06) Output Dim.= 1.58 inches Retainer Screw Torque (10.5) Verify torque to be 10 ± 2 in-lbs Inspected by: RR **STARTER PERFORMANCE (11.0) TEST SECTION (11.0)** REQUIREMENTS **INITIAL OR RECORD** Starter Performance (11.0) 24VDC ±0.25 VDC, Accelerate to 4700 Start time= 11.65 (30 sec.max) rpm within 30 seconds Inspected by: **GENERATOR PERFORMANCE (12.0) TEST (SECTION)** REQUIREMENTS **INITIAL OR RECORD** Generator Compounding (12.1) 12,000 RPM ±100 RPM, 30 VDC ±0.1 VDC 100 Amp load: 19 Amps at terminals, Record shunt field current 200 Amp load: 2. 7. 300 Amp load: 2. 7. 350 Amp load: 3. 0 Amps at 100, 200, 300, 350 Amp loads (Shunt Amps field current should increase with load) **Amps** Inspected by: KIT Temperature Stabilization and 12,000 RPM ±100 RPM, 300 Amps ±5 Inlet Air Temp.=105.1 Equalizing Voltage (12.2) Amps, 30 VDC ±0.1 VDC at terminals (B D to E Voltage= 1.46 VDC to E). D to E volts shall be within Fig. 4 Within figure 4 limits? Yes Inspected by: Commutation (12.3) Pin point sparking: .125 max. length from trailing edge Inspected by: High Continuous Test (12.4) 8,000 RPM +100/-0 RPM, 30.0 VDC, ±0.1 Shunt field current= 4, 4 VDC at terminals, 300 Amps ±5 Amps Amps. (10 Amps max. allowed) load Inspected by: K Minimum Speed for Regulation (12.5) 6575 RPM ±100 RPM, 30.0 VDC ±0.1 VDC Shunt field current= 7,4 at terminals, 300 Amps ±5 Amps load Amps. (10 Amps max. allowed) Inspected by: Overspeed (12.6) 14,000 RPM ±100 RPM, No load, No excessive noise, vibration or loosening Inspected by: of parts. Overload (12.7) 8000 RPM, 487±5 Amps for two minutes. Inspected By: KT Magnetic Speed Pickoff (12.8) 7,000 RPM ±100 RPM, (2.0 volts Peak to Peak Volts=5.20 Volts minimum peak to peak voltage) Inspected by: Commutator Run Out (12.9) Run out must be less then 0.0003 inch 0.0003 inch. Commutator bars: ひつり1 between adjacent commutator bars. 0.0007 inch Commutator run out: 、000ス Inspected By: Y2 Y2 Total run out of commutator must be less then 0.0007 inch.