Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: ES7911/1 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP
	KW	48		
	PHASE	3		
	VOLTS	400	PERFORMANCE CLASS	G1
	AMPS	87	(AS DEFINED BY ISO 8528-1)	
	HZ	50		
	RPM	1500		
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK514,36
ENGINE MODEL	1103A - 33TG2	SERIAL NUMBER	U2450930U
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32 - 2L/4	SERIAL NUMBER	A1092758
CONTROL PANEL(S)	AUTO - START	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	%	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	85	50,7	400	588	40,8	—	—	4,6
standby/ prime+10%	110%	50	400	762	528	87	—	3,8

GENERATING SET ENCLOSURE MECHANICAL PROTECTION: IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M): 75

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)		DENSITY	0.84 kg/l
TEMPERATURE (Deg c)		CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)		LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06 - 130700	CONTROL PANEL(S)	10 - 170300

TESTED BY C. Zanelli

DATE 05/08/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E3791/2 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP
	KW	48		
	PHASE	3		
	VOLTS	400	PERFORMANCE CLASS	G1
	AMPS	87	(AS DEFINED BY ISO 8528-1)	
	HZ	50		
	RPM	1500		
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK514.36
ENGINE MODEL	1103A - 33TG2	SERIAL NUMBER	U2446030
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32 - 2L/4	SERIAL NUMBER	A1092883
CONTROL PANEL(S)	AUTO - START	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	85	50,5	400	588	40,8	—	—	5,0
standby/ prime+10%	110%	50	400	762	52,8	84	—	4,0

GENERATING SET ENCLOSURE MECHANICAL PROTECTION: IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M): 75

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	1021	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	17	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	72	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06-130700	CONTROL PANEL(S)	10-170300

TESTED BY L. Zanchi

DATE 05/08/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: ES781/3 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP
	KW	48		
	PHASE	3		
	VOLTS	400	PERFORMANCE CLASS	G1
	AMPS	87	(AS DEFINED BY ISO 8528-1)	
	HZ	50		
	RPM	1500		
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51436
ENGINE MODEL	1103A - 33TG2	SERIAL NUMBER	U2443560
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32 - 2L/4	SERIAL NUMBER	A1092878
CONTROL PANEL(S)	AUTO - START	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	85	50,5	400	588	40,8	—	—	4,8
standby/ prime+10%	110%	50	400	762	52,8	84	—	3,7

GENERATING SET ENCLOSURE MECHANICAL PROTECTION: IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M): 75

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	1022	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	18	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	73	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06-13000	CONTROL PANEL(S)	10-170300

TESTED BY L. Zucchi

DATE 05/09/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9781/4 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP
	KW	48		
	PHASE	3		
	VOLTS	400	PERFORMANCE CLASS	G1
	AMPS	87	(AS DEFINED BY ISO 8528-1)	
	HZ	50		
	RPM	1500		
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51436
ENGINE MODEL	403A - 33T62	SERIAL NUMBER	U24435U0
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32 - 2L/4	SERIAL NUMBER	A10B2880
CONTROL PANEL(S)	AUTO - START	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	%	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	85	50,9	400	588	40,8	—	—	4,8
standby/ prime+10%	110%	50	400	762	528	86	—	3,5

GENERATING SET ENCLOSURE MECHANICAL PROTECTION: IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M): 75

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	101	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	20	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	60	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06 - 130700	CONTROL PANEL(S)	10 - 170300

TESTED BY L. Zanetti

DATE 05/08/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9791/5 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP
	KW	48		
	PHASE	3		
	VOLTS	400	PERFORMANCE CLASS	G1
	AMPS	87	(AS DEFINED BY ISO 8528-1)	
	HZ	50		
	RPM	1500		
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK5L436
ENGINE MODEL	1103A - 33TG2	SERIAL NUMBER	U24505L0
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32 - 2L/4	SERIAL NUMBER	A1082873
CONTROL PANEL(S)	AUTO - START	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	85	50,6	400	588	40,8	—	—	4,6
standby/ prime+10%	110%	50	400	762	528	85	—	3,7

GENERATING SET ENCLOSURE MECHANICAL PROTECTION: IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M): 75

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	1021	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	20	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	60	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06-130700	CONTROL PANEL(S)	10-170300

TESTED BY L. Tamburi

DATE 05/08/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9791/6 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP
	KW	48		
	PHASE	3		
	VOLTS	400	PERFORMANCE CLASS	G1
	AMPS	87	(AS DEFINED BY ISO 8528-1)	
	HZ	50		
	RPM	1500		
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51436
ENGINE MODEL	1103A - 33TG2	SERIAL NUMBER	U2450800
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32 - 2L/4	SERIAL NUMBER	A1032872
CONTROL PANEL(S)	AUTO - START	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	85	50,6	400	588	40,8	—	—	4,9
standby/ prime+10%	110%	50	400	762	528	85	—	3,6

GENERATING SET ENCLOSURE MECHANICAL PROTECTION: IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M): 75

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	1020	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	21	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	60	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	10-170300

TESTED BY L. Zammit

DATE 05/08/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: ES7917 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP
	KW	48		
	PHASE	3		
	VOLTS	400	PERFORMANCE CLASS	G1
	AMPS	87	(AS DEFINED BY ISO 8528-1)	
	HZ	50		
	RPM	1500		
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK514.36
ENGINE MODEL	1103A - 33TG2	SERIAL NUMBER	U24506301
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32 - 2L/4	SERIAL NUMBER	A1082758
CONTROL PANEL(S)	AUTO - START	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	85	50.7	400	58.8	40.8	—	—	4.7
standby/ prime+10%	110%	50	400	76.2	52.8		—	

GENERATING SET ENCLOSURE MECHANICAL PROTECTION: IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M): 75

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	1018	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	20	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	64	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06-130700	CONTROL PANEL(S)	10-170300

TESTED BY L. Zanelli

DATE 05/08/2010