

経歴 Rev.

0

ディーゼル機関仕様書

ENGINE SPECIFICATIONS

機関型式 Engine Model	公式呼称 4LE1(Stage 3A / Interim Tier 4) Base Model
	社内呼称 BV-4LE1NYGV-02 Model No.
納入先 Customer	一般輸出 EXPORT
搭載機種 Application	発電機 Generator
添付図面 Drawing No. (3D Data Codeb)	E3-1037-077-0

Symbol	Date	変更歴	Revision Record	Issue No.
0	2008-2-13	:	試作仕様確認用として作成 For confirmation of prototype engine specifications.	:
		:		:
		:		:
		:		:

いすゞ自動車株式会社
ISUZU MOTORS LIMITED
パワートレイン事業部
営業技術グループ
Powertrain Business Dept.

Group leader

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Manager

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Prepared

小川

ディーゼル機関仕様書

社内呼称 BV-4LE1NYGV-02

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Engine Specifications

Model No.

製造業者名 Manufacturer	いすゞ自動車株式会社 ISUZU MOTORS LIMITED		
機関名称 Engine Model	公式呼称: 4LE1(Stage 3A / Interim Tier 4)	社内呼称: BV-4LE1NYGV-02	
用途 Application	発電機 Generator		
機関型式 Engine type	4サイクル水冷頭上弁式直列、間接噴射式 Four cycle, water cooled, overhead valve, vertical in-line, in-direct injection type		
気筒数 - 径 × 行程 No. of cylinders-bore x stroke	4 - 85.0 mm x 96.0 mm		
総行程容積 Total piston displacement	2.179 L		
圧縮比 Compression ratio	21.5 21.5 to 1		
機関性能 Engine performance	: 仕様値 Rating	: 納入時規格 Rating at delivery from Isuzu factory	

試験条件 Test conditions	: 大気標準状態 Standard atmospheric condition	: 大気標準状態 Standard atmospheric condition
準拠規格 Conforming standard	: すり合わせ充分 Break-in time 30 hrs	: すり合せ 0.5 hr Break-in time 0.5 hr
JPN;JIS D0006-1	: ACジェネレーター付、ファン無 With AC generator and without cooling fan	: ACジェネレーター付、ファン無 With AC generator, without cooling fan
US;SAEJ1349	: エアクリーナー、サイレンサー付 With air cleaner and exh. silencer	: エアクリーナー無、サイレンサー付 Without air cleaner, With exh. silencer
EU;ISO15550	(使用燃料: EPA軽油相当)	(使用燃料: JIS 2号軽油相当)
	* Intake restriction -1.9kPa@1500min ⁻¹ / -2.45kPa@1800min ⁻¹ or less	
	* Exhaust restriction 4.0kPa@1500min ⁻¹ / 7.0kPa@1800min ⁻¹ or less	

定格出力 Rated output	: 21.8 ± 4% kW / 1500 min ⁻¹ (Stage 3A)	:
	: 26.3 ± 4% kW / 1800 min ⁻¹ (Interim Tier-4)	
常用出力 Continuous rating	: 19.5 kW / 1500 min ⁻¹ (Stage 3A)	:
	: 23.9 kW / 1800 min ⁻¹ (Interim Tier-4)	
燃料消費率(定格出力) Fuel consumption at rated.	: 258 g/kw.h or less	:
無負荷最高回転速度 No load max. speed	: 1575 min ⁻¹ or less	:
	: 1890 min ⁻¹ or less	
無負荷最低回転速度 Low idle speed	: 1000 ± 25 min ⁻¹	:
Speed lever set speed	: 1940 ± 5 min ⁻¹	

使用燃料 Type of fuel	軽油 (JIS 2号軽油相当) Diesel fuel only (JPN:JIS-NO.2, US:ASTM-2D, EU:EN590)		
機関乾燥質量 Engine dry weight	約 170 kg Approx. 170 kg		
機関寸法 Dimensions	全長 729 mm × 全幅 496 mm × 全高 595 mm (ファン付) L 729 x W 496 x H 595 (With cooling fan)		
着火順序 Firing order	1 - 3 - 4 - 2		
回転方向 Rotating direction	ファン側からみて時計方向 Clockwise viewed from cooling fan		
弁装置 Valve device	頭上カム軸式 (OHV) Overhead valve		

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過給装置	なし
Supercharging device	None(Natural aspirated)
過給方式	---
Supercharging system	---
駆動方式	---
Driving system	---
潤滑方式	---
Lubricating system	---
製造業者名	---
Manufacturer	---
名称	---
Name of type	---
燃料装置	
Fuel device	
噴射ポンプ	
Injection pump	
製造業者名	(株)ボッシュオートモーティブシステム
Manufacturer	Bosch automotive system
名称	PFR1KX型
Name of type	PFR1KX type
プランジャー	径 6.5 mm (燃料油潤滑式)
Plunger	Diameter 6.5 mm (Lubricated by fuel oil)
噴射ノズル	
Injection nozzle	
製造業者名	(株)ボッシュオートモーティブシステム
Manufacturer	Bosch automotive system
名称	スロットル式
Name of type	Throttle type
噴射時期調整機	なし
Fuel injection time regulator	None
製造業者名	---
Manufacturer	---
名称	---
Name of type	---
燃料供給ポンプ	付(エンジン装着)
Fuel feed pump	With (Engine attached)
製造業者名	(株)ユーシン
Manufacturer	U-shin LTD.
名称	電磁式
Name of type	Electromagnetic type
燃料濾過器	付(エンジン装着)
Fuel filter	With (Engine attached)
濾過方式	濾紙式
Filtering system	Paper element type
製造業者名	東京濾器(株)
Manufacturer	TOKYO ROKI
名称	濾紙式
Name of type	Paper element type
调速機	
Governor	
调速方式	遠心式全速制御
Speed control system	Centrifugal variable speed control
潤滑方式	飛沫式
Lubricating system	Splash type
製造業者名	いすゞ自動車(株)
Manufacturer	ISUZU MOTORS LIMITED
名称	---
Name of type	---

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潤滑装置	
Lubricating device	
潤滑方式	強制循環式
Lubricating system	Full forced pressure feed type
潤滑ポンプ	
Lubricating pump	
型式	トロコイドポンプ
Type of pump	Trochoid pump type
駆動方式	タイミングギア駆動
Driving system	Driven by timing gear
油圧調整装置	ピストンバネ式
Oil pressure regulating device	Piston - spring type
油圧指示装置	油圧ウォーニングランプ用スイッチ付き
Oil pressure indicating device	Oil pressure switch for warning lamp (Push-off, 98kPa)
潤滑油濾過器	
Oil filter	
濾過方式	全流濾紙式
Filtering system	Full flow paper element
製造業者名	東京濾器(株)
Manufacturer	TOKYO ROKI
潤滑油冷却器	なし
Oil cooler	None
冷却方式	---
Cooling system	---
製造業者名	---
Manufacturer	---
冷却装置	
Cooling device	
冷却方式	水冷式
Cooling system	Pressurized water forced circulation type
冷却ファン	Φ380-6-Blower(Loose part)
Cooling fan	dia.380-6-Blower
形式	---
Type of fan	---
駆動方式	ベルト駆動 プーリ比=クランク/ファン= 123 / 110 = 1.12
Driving system	Belt driven by crankshaft, speed ratio: 1.12
水ポンプ	
Water pump	
形式	渦巻式
Type of pump	Impeller type
駆動方式	ベルト駆動
Driving system	Belt driven by crankshaft pulley
水温調節装置	
Thermostat	
方式	ワックスペレット式
Regulating system	Wax-pellet type
製造業者名	富士精工(株)
Manufacturer	Fuji Bellows Co., Ltd.
水温指示装置	オーバーヒートウォーニングスイッチ付 (95°C)
Water temperature indicating device	With Overheat switch for warning lamp (95 degrees C)

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空 気 清 浄 器	---
Air cleaner	---
方 式	---
Cleaning system	---
製造業者名	---
Manufacturer	---
始 動 装 置	
Starting device	
電動機	
Starting motor	
製造業者名	(株)デンソー
Manufacturer	Denso corporation
名称	リダクション型
Name of type	Reduction type
電圧	12 V
Voltage	12 V
出力	2.0 kW
Output	2.0 kW
停 止 装 置	燃料遮断(エンジンストップソレノイドによる)
Engine stop device	Fuel cut by engine stop solenoid
予 熱 装 置	有 (QOS- II グロープラグ)
Preheating device	With Glow plug (QOS- II)
充 電 (点 灯) 発 電 機	
Alternator	
方式	交流式
Generating system	A/C type
製造業者名	(株)日立製作所
Manufacturer	HITACHI corporation
電圧	12 V
Voltage	12 V
出力	20A
Output	20 A
駆動方式	ベルト駆動
Driving system	Belt driven from crankshaft pulley
充 電 自 動 調 整 器	
Regulator	
方式	IC式(発電機に内蔵)
Regulating system	Built-in IC regulator
製造業者名	(株)日立製作所
Manufacturer	HITACHI corporation
充放電指示方式	---
Charging discharging indicating system:	---
時 間 計	なし
Hour meter	Without
方式	---
System	---
製造業者名	---
Manufacturer	---
取付位置	---
Fitting position	---
駆動方式	---
Driving system	---
回転比	---
Speed ratio	---
定格運転速度目盛	---
Rated speed indicator	---

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Power Take Off	なし
Power Take Off	None
許容傾斜角度	フライホイール側から見て
Allowable inclination angle	前下がりがり: 0.262rad 後ろ下がりがり: 0.262rad 左下がりがり: 0.262rad 右下下がりがり: 0.262rad 0.262 rad.(15deg.) for all directions viewed from flywheel
各種容量	
Capacity	
油量	MAX : 約 8.4 L MIN : 約 5.9 L (オイルパン内容量)
Lubrication oil	MAX : approx. 8.4 L MIN : approx. 5.9 L (Oil pan only)
空気清浄器	---
Air cleaner	---
噴射ポンプ室	---
Injection pump	---
調速器室	---
Governor	---
冷却水	約 2.8 L (エンジンのみ)
Cooling water	Approx 2.8 L (Engine only)
その他	---
Others	---
整備諸元	
Maintenance data	
弁整備諸元	項目 : 弁スキマ : 開弁時期 : 閉弁時期
Valve clearance and adjustment	Valve Valve clearance Valve timing: open Valve timing: close
	吸気弁 : 冷間時 0.4 mm : 上死点前 0.26 rad(15deg) : 下死点後 0.51 rad(29deg)
	Inlet 0.4 mm at cold 0.26 rad(15deg) BTDC 0.51 rad(29deg) ABDC
	排気弁 : 冷間時 0.4 mm : 下死点前 0.70 rad(40deg) : 上死点後 0.28 rad(16deg)
	Exhaust 0.4 mm at cold 0.70 rad(40deg) BBDC 0.28 rad(16deg) ATDC
噴射時期	上死点前 0.175 rad (10deg.)
Injection timing	BTDC 0.175 rad (10deg)
噴射開始圧力	14.7 MPa
Initial injection pressure	14.7 MPa
圧縮圧力	3.04 MPa (31 kgf/cm ²) (エンジン回転: 250 min ⁻¹ において)
Compressive pressure	(At engine speed 250 min ⁻¹)
参考諸元	
Reference data	
水温調節装置	開き始め (大気圧において) : 82.0°C
Thermostat	Initial opening temperature at atmospheric pressure: 82.0 degrees C
	ストローク 8.0 mm 以上になる温度 : 95.0°C
	Temperature at valve lift of 8.0 mm and over: 95.0 degrees C
塗装色	クリア塗装
Painting color	但し、クーリングファンは白色、機械側接続部及び電装品端子、ラベル類は除く Clear, except for cooling fan, electrical part connectors, and labels
出荷時充填潤滑油	出荷時オイル無し
Lubricating oil at delivery	There is no engine oil when engine deliver from Isuzu factory.
推奨充填潤滑油	APIグレード [*] CD, CE, CF, CF-4 or ACEAグレード [*] B2/B3, E2/E3
Recommended lubrication oil	API Grade CD, CE, CF, CF-4 or ACEA Grade B2/B3, E2/E3 [*] Please refer to "Engine Instruction Manual" for details.

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仕様概要: 本エンジンの主な特殊仕様は下記の通り。

Dress Level

No.	部品名称 Item	概要 Description
1	HOUSING ; FLYWHEEL	SAE#4 相当 SAE#4 Level
2	FLYWHEEL	準SAE 10 inch semi-SAE 10" STD type
3	OIL PAN	ドレインプラグ付き With Drain plug
4	OIL LEVEL GAUGE	付き、エンジン右側面 With (Engine RH attached)
5	AC GENERATOR	日立製作所 A/C 12V-20A HITACHI corporation A/C 12V-20A
6	STARTER	デンソー 12V-2.0kW Denso corporation 12V-2.0kW
7	FUEL FILTER	付き、エンジン右側面 With (Engine RH attached)
8	OIL FILTER	付き、エンジン右側面 With (Engine RH attached)
9	WATER INLET PIPE	右横向き(F/W側から見て) Right hand sideward (Viewed from Flywheel)
10	WATER OUTLET PIPE	左横向き(F/W側から見て) Left hand sideward (Viewed from Flywheel)
11	AIR INLET	左横向き(F/W側から見て) Left hand sideward, straight (Viewed from Flywheel)
12	COOLING FAN	Φ380-6-吐出し(同梱品) dia.380-6 blade-Blower(Loose parts)
13	FAN SPACER	t=22.5 (4.5+18) (同梱品) t=22.5 (4.5+18) (Loose parts)

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付属納入部品 (エンジン本体に取り付かずに納入される部品)

Loose parts

No.	部品番号 Parts No.	部品名称 Item	個数 Qty	備考 Remarks
1	897111-9621	TIMER ASM;EMERGENCY	1	
2	894173-9480	CONTROL RESISTANCE	1	
3	897105-4300	CONNECTOR;ACG	1	
4	897105-4310	CONNECTOR;ACG	1	
5	582550-0290	RELAY;STARTER	1	
6	897022-8101	FAN ASM;COOLING(dia.380-Push)	1	
7	028050-8450	BOLT;FAN FIX	4	Temporary attached to ENG
8	897063-4003	SPACER;FAN t=4.5	1	Temporary attached to ENG
9	989136-4230	SPACER;FAN t=18.0	1	Temporary attached to ENG
10	897042-0280	GSKT;EXH. PIPE	1	Temporary attached to ENG
11	---	SUPPLEMENT LABEL	1	Temporary attached to ENG
12	898106-4910	FUEL INLET LABEL	1	Temporary attached to ENG

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ENGINE SPECIFICATIONS

Engine Model	Base Model :	4LE1(Stage 3A / Interim Tier 4)
	Model No. :	BV-4LE1NYGV-02
Customer	EXPORT	
Application	Generator	
Drawing No. (3D Data Code)	E3-1037-077-0	

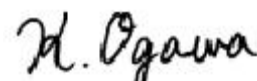
Symbol	Date	Revision Record	Issue No.
0	2008-2-13	For confirmation of prototype engine specifications.	
	:	:	:
	:	:	:
	:	:	:
	:	:	:
	:	:	:

ISUZU MOTORS LIMITED
Powertrain Business Dept.

Manager : Nobuhiro Shimizu



Prepared : Koji Ogawa



Engine Specifications

Model No. BV-4LE1NYGV-02

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Manufacturer	ISUZU MOTORS LIMITED
Engine Model	Base Model: 4LE1(Stage 3A / Interim Tier 4) Model No. BV-4LE1NYGV-02
Application	Generator
Engine type	Four cycle, water cooled, overhead valve, vertical in-line, in-direct injection type
No. of cylinders-bore x stroke	4 - 85.0 mm x 96.0 mm
Total piston displacement	2.179 L
Compression ratio	21.5 to 1

Engine performance	Rating	Rating at delivery from Isuzu factory
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Test conditions	Standard atmospheric condition	Standard atmospheric condition
<div style="border: 1px solid black; padding: 2px;"> Conforming standard JPN;JIS D0006-1 US;SAEJ1349 EU;ISO15550 </div>	Break-in time 30 hrs	Break-in time 0.5 hr
	With AC generator and without cooling fan	With AC generator, without cooling fan
	With air cleaner and exh. silencer	Without air cleaner, With exh. silencer
	Fuel : EPA	Fuel : JPN: JIS-NO.2
* Intake restriction	-1.9kPa@1500min-1 / -2.45kPa@1800min-1 or less	
* Exhaust restriction	4.0kPa@1500min-1 / 7.0kPa@1800min-1 or less	

Rated output	: 21.8 ± 4% kW / 1500 min-1(Stage 3A)	:	
	: 26.3 ± 4% kW / 1800 min-1(Interim Tier-4)	:	
Continuous rating	: 19.5 kW / 1500 min-1(Stage 3A)	:	
	: 23.9 kW / 1800 min-1(Interim Tier-4)	:	
Fuel consumption at rated.	: 258 g/kw.h or less	:	
No load max. speed	: 1575 min-1 or less	:	
	: 1890 min-1 or less	:	
Low idle speed	: 1000 ± 25 min-1	:	
Speed lever set speed	: 1940 ± 5 min-1	:	

Type of fuel	Diesel fuel only (JPN:JIS-NO.2, US:ASTM-2D, EU:EN590)
Engine dry weight	Approx. 170 kg
Dimensions	L 729 x W 496 x H 595 (With cooling fan)
Firing order	1 - 3 - 4 - 2
Rotating direction	Clockwise viewed from cooling fan
Valve device	Overhead valve

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Supercharging device

Supercharging device	None(Natural aspirated)
Supercharging system	---
Driving system	---
Lubricating system	---
Manufacturer	---
Name of type	---

Fuel device

Injection pump	
Manufacturer	Bosch automotive system
Name of type	PFR1KX type
Plunger	Diameter 6.5 mm (Lubricated by fuel oil)
Injection nozzle	
Manufacturer	Bosch automotive system
Name of type	Throttle type
Fuel injection time regulator	None
Manufacturer	---
Name of type	---
Fuel feed pump	With (Engine attached)
Manufacturer	U-shin LTD.
Name of type	Electromagnetic type
Fuel filter	With (Engine attached)
Filtering system	Paper element type
Manufacturer	TOKYO ROKI
Name of type	Paper element type
Governor	
Speed control system	Centrifugal variable speed control
Lubricating system	Splash type
Manufacturer	ISUZU MOTORS LIMITED
Name of type	---

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Lubricating device

Lubricating system Full forced pressure feed type

Lubricating pump

Type of pump Trochoid pump type

Driving system Driven by timing gear

Oil pressure regulating device Piston - spring type

Oil pressure indicating device Oil pressure switch for warning lamp (Push-off, 98kPa)

Oil filter

Filtering system Full flow paper element

Manufacturer TOKYO ROKI

Oil cooler

None

Cooling system

Manufacturer

Cooling device

Cooling system Pressurized water forced circulation type

Cooling fan

dia.380-6-Blower

Type of fan

Driving system

Belt driven by crankshaft, speed ratio: 1.12

Water pump

Type of pump

Impeller type

Driving system

Belt driven by crankshaft pulley

Thermostat

Regulating system

Wax-pellet type

Manufacturer

Fuji Bellows Co., Ltd.

Water temperature
indicating device

With Overheat switch for warning lamp (95 degrees C)

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Air cleaner

Cleaning system ---
Manufacturer ---

Starting device

Starting motor
Manufacturer Denso corporation
Name of type Reduction type
Voltage 12 V
Output 2.0 kW

Engine stop device Fuel cut by engine stop solenoid

Preheating device With Glow plug (QOS- II)

Alternator

Generating system A/C type
Manufacturer HITACHI corporation
Voltage 12 V
Output 20A
Driving system Belt driven from crankshaft pulley

Regulator

Regulating system Built-in IC regulator
Manufacturer HITACHI corporation
Charging discharging indicating system: ---

Hour meter

Without
System ---
Manufacturer ---
Fitting position ---
Driving system ---
Speed ratio ---
Rated speed indicator ---

Power Take Off None

Flange type ---
Speed ratio ---
Spline number of teeth ---

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Allowable inclination angle 0.262 rad.(15deg.) for all directions viewed from flywheel

Capacity

Lubrication oil MAX : approx. 8.4 L MIN : approx. 5.9 L (Oil pan only)
 Air cleaner ---
 Injection pump ---
 Governor ---
 Cooling water Approx 2.8 L (Engine only)
 Others ---

Maintenance data

Valve clearance and adjustment	Valve	Valve clearance	Valve timing: open	Valve timing: close
Inlet	0.4 mm at cold	0.26 rad(15deg) BTDC	0.51 rad(29deg) ABDC	
Exhaust	0.4 mm at cold	0.70 rad(40deg) BBDC	0.28 rad(16deg) ATDC	

Injection timing BTDC 0.175 rad (10deg)
 Initial injection pressure 14.7 MPa
 Compressive pressure 3.04 MPa (31 kgf/cm²) (At engine speed 250 min-1)

Reference data

Thermostat Initial opening temperature at atmospheric pressure: 82.0 degrees C
 Temperature at valve lift of 8.0 mm and over: 95.0 degrees C

Painting color Clear, except for cooling fan, electrical part connectors, and labels

Lubricating oil at delivery There is no engine oil when engine deliver from Isuzu factory.

Recommended lubrication oil API Grade CD, CE, CF, CF-4 or ACEA Grade B2/B3, E2/E3
 * Please refer to "Engine Instruction Manual" for details.

Engine Specifications

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Dress Level

No.	Item	Description
1	HOUSING ; FLYWHEEL	SAE#4 Level
2	FLYWHEEL	semi-SAE 10" STD type
3	OIL PAN	With Drain plug
4	OIL LEVEL GAUGE	With (Engine RH attached)
5	AC GENERATOR	HITACHI corporation A/C 12V-20A
6	STARTER	Denso corporation 12V-2.0kW
7	FUEL FILTER	With (Engine RH attached)
8	OIL FILTER	With (Engine RH attached)
9	WATER INLET PIPE	Right hand sideward (Viewed from Flywheel)
10	WATER OUTLET PIPE	Left hand sideward (Viewed from Flywheel)
11	AIR INLET	Left hand sideward, straight (Viewed from Flywheel)
12	COOLING FAN	dia.380-6 blade-Blower(Loose parts)
13	FAN SPACER	t=22.5 (4.5+18) (Loose parts)

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Model No. BV-4LE1NYGV-02

Rev. 0

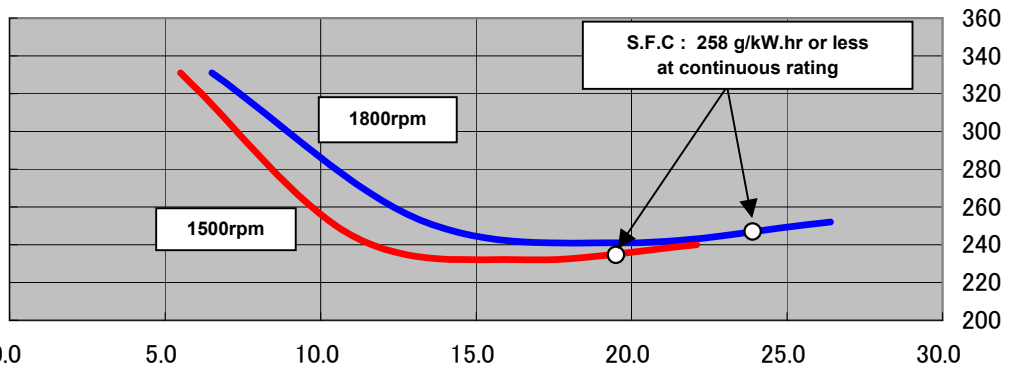
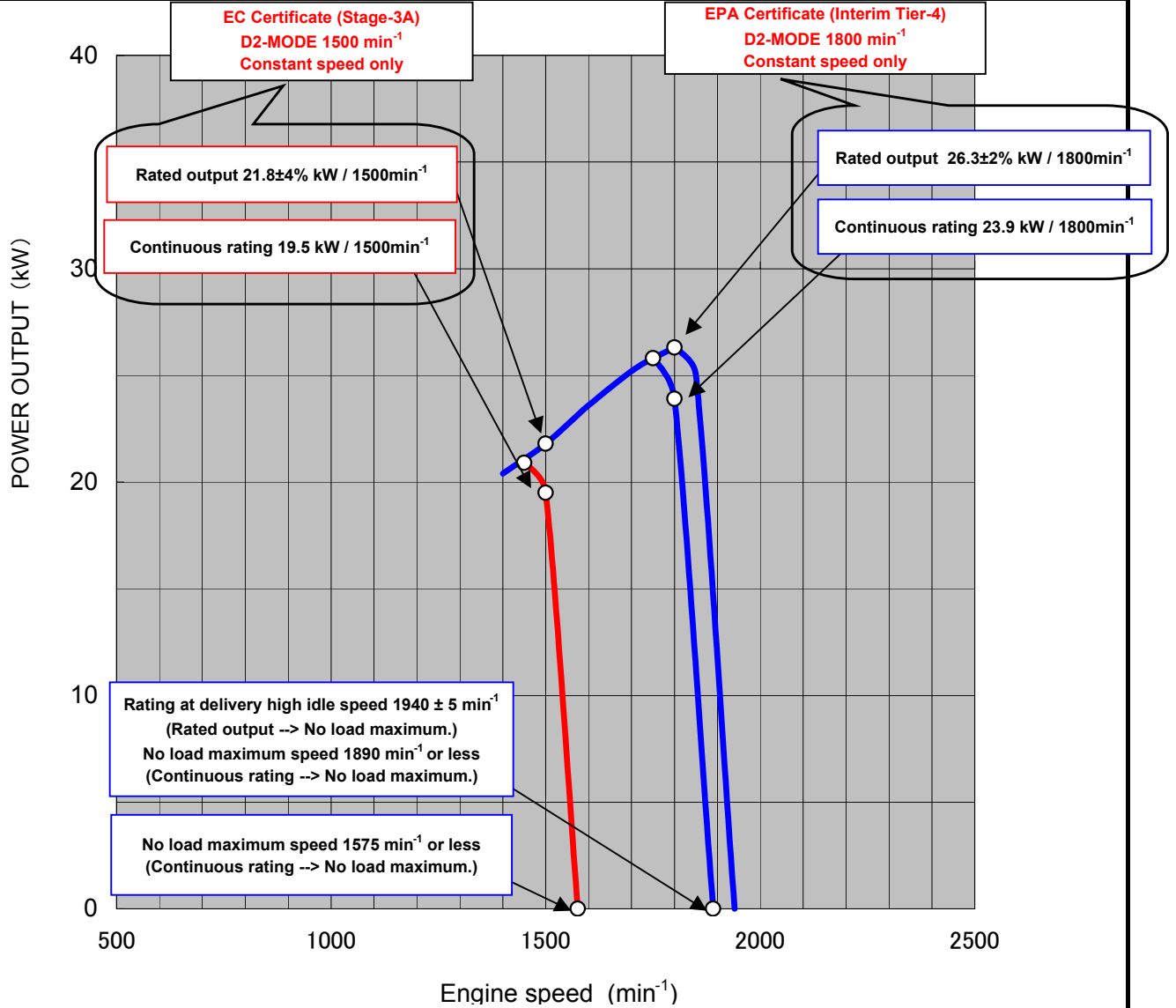
Loose parts

No.	Parts No.	Item	Qty	Remarks
1	897111-9621	TIMER ASM;EMERGENCY	1	
2	894173-9480	CONTROL RESISTANCE	1	
3	897105-4300	CONNECTOR;ACG	1	
4	897105-4310	CONNECTOR;ACG	1	
5	582550-0290	RELAY;STARTER	1	
6	897022-8101	FAN ASM;COOLING(dia.380-Push)	1	
7	028050-8450	BOLT;FAN FIX	4	Temporary attached to ENG
8	897063-4003	SPACER;FAN t=4.5	1	Temporary attached to ENG
9	989136-4230	SPACER;FAN t=18.0	1	Temporary attached to ENG
10	897042-0280	GSKT;EXH. PIPE	1	Temporary attached to ENG
11	---	SUPPLEMENT LABEL	1	Temporary attached to ENG
12	898106-4910	FUEL INLET LABEL	1	Temporary attached to ENG

ISUZU

BV-4LE1NYGV-02 (for GENERATOR-SET) Target Performance Curve

IS-08-013-0		Rev.	0
Condition	SAE J1349 NET wo/Fan		
Temp.	Standard		
Test hour	30Hr		
Pulley Ratio	-		
Cooling fan	Without		
Air cleaner	With		
Exh.silencer	With		
Generator	With (No load)		



Allowable limit

Maximum intake depression : -2.45kPa @1800min⁻¹ , -1.9kPa @1500min⁻¹
Maximum exhaust back pressure : 7.0kPa @1800min⁻¹ , 4.0kPa @1500min⁻¹

Engine specifications Revision chart

Customer : EXPORT

Engine Model : BV-4LE1GV-02

Application : Generator

Rev. No.	IS No.	Date	Page	Item	Previous	Current	Description (Reason of change)
0	IS-08-013-0	13th.Feb.08		For confirmation of prototype engine specifications			