YANMAR

Declaration of Incorporation

INDUSTRIAL ENGINES

L-AE SERIES
L-N SERIES
L-V SERIES

Disclaimers:

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Date of issue: Apr. 2010

1. DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

(Original declaration according to Directive 2006/42/EC, Annex II, part 1B)

1. The manufacturer: **Yanmar Italy S.p.A.**
   Via Carabelli, 7/9,
   21012 Cassano Magnago (VA),
   Italy
2. Represented in Europe by: **Yanmar Europe B.V.**
   Mr. Eiji Yamashita, Manager Engineering Department
   Brugplein 11, 1332 BS Almere,
   The Netherlands

   Who is authorized to compile the relevant technical documentation.
3. Declares that for the partly completed machine, Yanmar branded L-AE, L-V and L-N air cooled single-cylinder diesel engines used for power delivery to drive machines, shown on below picture and as from the below mentioned serial numbers:



Note: Picture is for reference and basic configuration only.
Your particular engine may have a different configuration.

1. DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

Base engine model*	From serial number**
L48N	S01478
L70N	S02102
L100N	S11987
L48AE	C67127
L70AE	C88163
L100AE	CJ4238
L48V	M18183
L70V	M14261
L100V	M18549

* The base engine model designation is followed by up to 10 characters, which vary per application and engine specification (for example L70N2EN9F9HAS1 or L48AE-DRWEYI);

** The serial number range for each base engine model is build-up as follows.
(in subsequent order, example for L-AE): C00101▶C99999, then CA0101▶CA9999, then CB0101▶CB9999, then CC0101▶CC9999 etc.

4. The essential safety- and health requirements of the Directive 2006/42/EC, Annex 1, related to the design and construction of the engines have been applied and fulfilled as shown in Annex A.

   The relevant technical documentation is compiled in accordance with part B of Annex VII of the Directive 2006/42/EC.

   The engines comply with the following other relevant Directive(s): not applicable:

5. In case of a reasoned request by the national authorities, we will transmit the relevant technical information of the applicable Yanmar engines by e-mail to the person in charge.
6. This partly completed machinery must not be put into service until the final machinery into which it has to be incorporated has been declared in conformity with the provisions of this Directive, where appropriate.
7. This declaration is written in Cassano Magnago (VA), Italy on 10th, December 2009.



Tokio Fujii,
President Yanmar Italy S.p.A.

ANNEX A

To the Declaration of Incorporation of partly completed machinery for Yanmar branded L-AE, L-V and L-N air cooled single-cylinder diesel engines.

The essential health and safety requirements for machinery can only be made compliant partly by Yanmar. Therefore Yanmar recommends to double-check the paragraphs from Annex 1 of the Directive 2006/42/EC mentioned below for compliance with the Directive for your particular machine.

Chapter	Subject	Applied	Fulfilled	Remark
1.1 GENERAL REMARKS				
1.1.2	Principles of safety integration	**Yes** *1	**Yes** *1	For safe integration into the machine, see the Assembly Instructions
	*1 For the following principles mentioned in the Directive: (a) the design and construction so that it is fitted for its function; (b) the elimination or reduction of risks as far as possible; (c) (d) All other principles are measures to be taken by the machine manufacturer for compliance with the Directive.			
1.1.3	Materials and products	**Yes**	**Yes**	Use recommended fluids and filling positions only
1.1.4	Lighting	Not applicable		By machine manufacturer
1.1.5	Design of machinery to facilitate its handling	**Yes**	**Yes**	All engines have appropriate packaging and lifting eyes
1.1.6	Ergonomics	Not applicable		By machine manufacturer
1.1.7	Operating positions			
1.1.8	Seating			
1.2 CONTROL SYSTEMS				
1.2.1	Safety and reliability of control systems	**Yes** *2	**No** *2	
	*2 The control systems are designed and constructed to withstand the intended operating stresses and external influences, a fault in the hardware of the control system, errors in the control system logic, or reasonably foreseen human error during operation does not lead to hazardous situations. The operation of the control systems is to be designed and implemented by the machine manufacturer. Contact Yanmar for advise if required.			
1.2.2	Control devices	**Yes** *3	**No** *3	
	*3 The engine is fitted with the basic required control devices. The operation of the control devices is to be designed and implemented by the machine manufacturer. Contact Yanmar for advise if required.			
1.2.3	Starting	**Yes** *4	**No** *4	
	*4 The engine is fitted with a starter motor and/or recoil starter depending on the specification. The operation of the starter motor is to be designed and implemented by the machine manufacturer. Contact Yanmar for advise if required.			
1.2.4.1	Normal stop	**Yes** *5	**No** *5	
	*5 The engine is fitted with a control lever whereby it can be brought safely to a complete stop. In case of a remote control lever, the operation of the engine control lever is to be designed and implemented by the machine manufacturer. Contact Yanmar for advise if required.			

ANNEX A

Chapter	Subject	Applied	Fulfilled	Remark
1.2.4.2	Operational stop	Not applicable		By machine manufacturer
1.2.4.3	Emergency stop			
1.2.4.4	Assembly of machinery			
1.2.5	Selection of control or operating modes			
1.2.6	Failure of power supply			
1.3 PROTECTION AGAINST MECHANICAL HAZARDS				
1.3.1	Risk of loss of stability	**Yes**	**Yes**	A threaded hole to mount a lifting eye is provided
1.3.2	Risk of break-up during operation	**Yes** *6	**Yes** *6	
	*6 Except for the instructions to indicate the type and frequency of inspections and maintenance required for safety reasons as well as the mounting, positioning and/or guarding of parts where a risk of rupture or disintegration remains, which are to be made compliant by the machine manufacturer.			
1.3.3	Risks due to falling or ejected objects	Not applicable		
1.3.4	Risks due to surfaces edges or angles	**Yes**	**Yes**	
1.3.5	Risks related to combined machinery	Not applicable		By machine manufacturer
1.3.6	Risks related to variations in operating conditions			
1.3.7	Risks related to moving parts	**No**	**No**	By machine manufacturer
1.3.8	Choice of protection against risks arising from moving parts	**No**	**No**	
1.3.8.1	Moving transmission parts	**No** *7	**No** *7	
	*7 Power take off shaft to be protected by the machine manufacturer.			
1.3.8.2	Moving parts involved in the process	Not applicable		By machine manufacturer
1.3.9	Risks of uncontrolled movements			
1.4 REQUIRED CHARACTERISTICS OF GUARDS AND PROTECTIVE DEVICES				
1.4.1	General requirements	Not applicable		
1.4.2.1	Fixed guards			
1.4.2.2	Interlocking movable guards			By machine manufacturer
1.4.2.3	Adjustable guards restricting access			
1.4.3	Special requirements for protective devices			
1.5 RISKS DUE TO OTHER HAZARDS				
1.5.1	Electricity supply	Not applicable		By machine manufacturer
1.5.2	Static electricity	Not applicable		By machine manufacturer
1.5.3	Energy supply other than electricity	**Yes** *8	**Yes** *8	This concerns the fuel injection system
	*8 For the fuel tank, fuel filter, fuel injection pump, fuel injection nozzles, high pressure fuel injection pipes and fuel hoses supplied and installed on the engine by Yanmar. Any other fuel system parts connected to the engine to be made compliant by the machine manufacturer.			
1.5.4	Errors of fitting	**No**	**No**	Fitting or refitting to be done by trained and skilled personnel only
1.5.5	Extreme temperatures	**No**	**No**	Protection or warnings to be made by the machine manufacturer

Chapter	Subject	Applied	Fulfilled	Remark
1.5.6	Fire	**Yes**	**Yes**	When properly installed according the instructions
1.5.7	Explosion	**Yes**	**Yes**	
1.5.8	Noise	**Yes**	**Yes**	
1.5.9	Vibrations	**Yes**	**Yes**	
1.5.10	Radiation	**No**	**No**	By machine manufacturer
1.5.11	External radiation	Not applicable		
1.5.12	Laser radiation	Not applicable		
1.5.13	Emissions of hazardous materials and substances	**Yes** *9	**Yes** *9	
	*9 Except for the exhaust- and fuel system which needs to be properly connected by the machine manufacturer according the instructions.			
1.5.14	Risk of being trapped in a machine	Not applicable		By machine manufacturer
1.5.15	Risk of slipping, tripping or falling			
1.5.16	Lightning			
1.6 MAINTENANCE				
1.6.1	Machinery maintenance	**Yes**	**Yes**	
1.6.2	Access to operating positions and servicing points	Not applicable		By machine manufacturer
1.6.3	Isolation of energy sources			
1.6.4	Operator invention			
1.6.5	Cleaning of internal parts	**Yes**	**Yes**	
1.7 INFORMATION				
1.7.1	Information and warnings on the machinery	**Yes**	**Yes**	
1.7.1.1	Information and information devices	**Yes**	**Yes**	
1.7.1.2	Warning devices	**No**	**No**	By machine manufacturer
1.7.2	Warning of residual risks	**No**	**No**	
1.7.3	Marking of machinery	**Yes** *10	**No** *10	
	*10 The engine is marked with a brand, model designation and serial number. CE marking to be carried out by the machine manufacturer.			
1.7.4	Instructions	**Yes**	**Yes**	
1.7.4.1	General principles for the drafting of instructions	**Yes** *11	**Yes** *11	
	*11 For (a) and (b). The machine manufacturer to comply with (c) and (d) for the total machine and use of it.			
1.7.4.2	Contents of the instructions	**Yes** *12	**Yes** *12	
	*12 For (a), (b), (d), (e), (g), (h), (i), (j), (k), (p), (r), (s), (t). The machine manufacturer to comply with (c), (f), (l), (m), (n), (o), (q), (u), (v).			
1.7.4.3	Sales literature	**Yes**	**Yes**	

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