

USE AND MAINTENANCE  
USO E MANUTENZIONE  
UTILISATION ET ENTRETIEN  
BETRIEB UND WARTUNG  
USO Y MANTENIMIENTO

# VECTOR SERIES

INDUSTRIAL ENGINES

**IVECO  
MOTORS**



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# VECTOR SERIES

## V08 ENT (TIER 2/3) VECTOR8 TE2

### USE AND MAINTENANCE

#### INTRODUCTION

We would like to thank you for buying an IVECO MOTORS product, and compliment you on your choice of engine.

Before you carry out any operation involving the engine or its fittings, please read the contents of this manual carefully; compliance with the instructions provided in the manual is the best way to guarantee trouble-free, long term operation of the engine.

The contents of this manual refer to the standard configuration of the engine, and the illustrations are purely indicative. Some instructions are provided by giving the sequence of operations to be carried out in order to allow the engine and/or its fittings to perform in a certain way. In some cases they will be dependent on the configuration of the commands and the set-up of the machine on which the engine is installed; for any points that differ from the contents of this manual, please consult the instructions provided by the machine Manufacturer or a specific manual.

The information provided below was current at the date of publication.

The Manufacturer reserves the right to make modifications at any time without prior notice, for technical or commercial reasons or to update the engines to comply with legal requirements in the various Countries.

The Manufacturer declines all liability for any errors or omissions.

Please remember that the IVECO MOTORS Technical Service Network is available to offer you its experience and professional skills, wherever you may be.

## CONTENTS

	Page		Page
■ GENERAL INFORMATION .....	3	■ BEHAVIOUR IN AN EMERGENCY .....	39
Guarantee .....	3	■ IN APPENDIX .....	
Spare Parts .....	3	Oil viscosity level according to surrounding temperatures .....	
Liability .....	3	Control panel operating requirements .....	
Safety .....	3		
Engine Technical Data V08 ENT .....	4		
Engine technical data VECTOR 8 TE2 .....	6		
Signs .....	8		
■ USE .....	9		
Preliminary checks .....	9		
Starting and stopping the engine .....	9		
Recognising alarms .....	12		
Engine management and diagnosis from the instrument panel .....	13		
Managing the engine from the Relay box .....	14		
Managing the engine VECTOR TE2 .....	16		
For proper use of the engine .....	19		
Special warnings .....	19		
Running in .....	20		
Refuelling .....	21		
■ CONTROLS AND MAINTENANCE .....	22		
Maintenance personnel .....	22		
Accident prevention .....	22		
Frequency .....	23		
Requirements .....	24		
How to proceed .....	25		
Moving the engine .....	34		
Disposal of waste .....	34		
■ LONG PERIODS OF INACTIVITY .....	35		
Preparing the engine for a long period of inactivity .....	35		
Restarting the engine after a long period of inactivity .....	35		
Indications for initial start-up and start-up after a long period of inactivity .....	36		
■ ENGINE MALFUNCTIONS .....	37		

## ■ GENERAL INFORMATION

### GUARANTEE

In order to ensure that your engine gives the best possible performance and to take advantage of the IVECO MOTORS guarantee, you must follow the indications provided in this publication with great care; failure to do so may result in invalidation of the guarantee.

### SPARE PARTS

Always use Original IVECO MOTORS Spare parts. This is essential to keep the engine in original running order.

The use of non-original spare parts will not only invalidate the guarantee, but will mean that IVECO MOTORS will not be considered liable in any way during the whole working life of the engine.

### LIABILITY

The Manufacturer will only be considered liable subject to performance of the control and maintenance operations indicated and described in this manual; to this effect, proof that these operations have been performed must be provided. It is recommended that any special maintenance operations that may be necessary be carried out by qualified technicians from authorised Workshops in the IVECO MOTORS Network, using the instruments and equipment provided for the purpose.

### SAFETY

The following information is intended to encourage caution when using the engine, so as to avoid damage to persons or property as a result of improper or incorrect behaviour.

- ❑ The engines must only be used for the purposes indicated by the Manufacturer.
- ❑ Any tampering, modification and use of non-original spare parts may compromise proper operation and safe use of the engine; **never, under any circumstances** make modifications to the wiring and to the units equipping the engine, or connect them to other power systems.
- ❑ Pay particular attention to moving parts of the engine, to high temperature components and to circuits containing pressurised fluids; its electrical equipment houses electrical currents and voltage.
- ❑ The exhaust fumes produced by the engine are bad for your health.
- ❑ The engine must only be moved using suitable lifting tackle, making use of the U-bolts provided on the engine for that purpose.
- ❑ The engine must not be started up and used until the machine in which it is installed has satisfied all necessary safety requirements, or until the machine has been guaranteed to comply with local laws and regulations.
- ❑ The operations required to guarantee the best possible use and preservation of the engine must only be carried out by persons of proven experience, equipped with tools considered suitable by IVECO MOTORS.

For the purpose of safety, further recommendations are given in the chapter CONTROLS AND MAINTENANCE.

## ENGINE TECHNICAL DATA V08 ENT

The technical code and serial number are indicated on a plate, which is located on different parts of the engine, according to the model: flywheel casing, tappet cover, other.

Code	V08 ENT
Engine family	FVAE
Cycle	4-stroke diesel
Number and arrangement of cylinders	8, 90° V
Bore x stroke	145 x 152 mm
Total displacement	20,080 cm <sup>3</sup>
Air system	Supercharged and aftercooled
Injection type	Common Rail, electronically managed
Engine direction of rotation	Anticlockwise (seen from flywheel side)
Dry weight	1500 kg

Electrical system	24 V
Accumulator/s	
- capacity	260 Ah or above
- discharge current	1500 A or above

Performance:	Maximum power (*) Maximum torque
V08 ENT (TIER2)	640 kW (870 CV) @ 2100 rpm 3650 Nm (372 Kgm) @ 1400 rpm

Performance:	Maximum power (*) Maximum torque
V08 ENT (TIER3)	560 kW (761 CV) @ 2100 rpm 3200 Nm (326 Kgm) @ 1400 rpm
	480 kW (653 CV) @ 2100 rpm 2700 Nm (275 Kgm) @ 1400 rpm

(\*) Net power to the flywheel in compliance with ISO 3046-1.  
Test conditions: temperature 25 °C; atmospheric pressure 100 kPa; relative humidity 30%.

WARNING
Any alteration of the above mentioned characteristics, in particular modification of the data stored in the injection system electronic units or the characteristics of the engine and its fittings, is strictly prohibited, penalty invalidation of the guarantee and absence of all liability on the part of IVECO MOTORS.

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