

## **Additional information and instructions by EU Stage V**

The information and instructions to be provided to end-users were added by Regulation (EU)2016/1628 and Delegated regulation (EU)2017/654.

### **Engine operation and maintenance**

You must comply with the following things when you operate an engine.

- The engine, including the emissions control system, shall be operated, used and maintained in accordance with the instructions provided to the end users in order to maintain the emissions performance of the engine within the requirements applicable to the engine's category.
- No deliberate tampering with or misuse of the engine emissions control system should take place; in particular with regard to deactivating or not maintaining an exhaust gas recirculation (EGR) or a reagent dosing system.
- When a warning lamp lights up, a trouble is happening to the engine and it may cause trouble to the emission control system. It is essential to take prompt action to rectify any incorrect operation, use or maintenance of the emissions control system in accordance with the rectification measures indicated in the 'TROUBLESHOOTING', or where applicable, 'OPERATOR WARNING AND INDUCEMENT'.
- For non-road mobile machinery with a NOx control diagnostic (NCD) operator inducement system, ignoring the operator warning signals will lead to the activation of the operator inducement system, resulting in an effective disablement of non-road mobile machinery operation.
- Where the engine is to be operated within the Union on diesel or non-road gas-oil, a fuel with sulfur content not greater than 10 mg/kg (20 mg/kg at point of final distribution) cetane number not less than 45 and an FAME content not greater than 7 % v/v shall be used.

### **Carbon dioxide (CO<sub>2</sub>) emissions**

The measurement result of CO<sub>2</sub> emissions in g/kWh is shown in the attached list. Please check your machine model name in the list to find its CO<sub>2</sub> emission data which belongs to each engine family.

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FAME: Fatty acid methyl ester

v/v : Volume per volume

**The list of EU Stage V CO<sub>2</sub> emission result of each models**

Please note that this CO<sub>2</sub> measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

	Models	CO2 Emission [g/kWh]
Tractor	B1121D	1019.8
	B1161D	
	B1181D/B1181DT	
	BX231D	1047.4
	B1241D	1018.0
	B2201	
	B2231	
	B2261	
	BX261D	
Mower Utility Vehicle	GR1600EU-3	1019.8
	GR1600-ID-2	
	GR2120EU-3	
	GR2120SEU-2	
	G21HD-3	
	G21LD-4	
	G2160-4	
	GZD21-2 HD	
	GZD15-3 LD/HD	1047.4
	G23-3	
	RTV-X900	1018.0
	G26-3	
	ZD1211R-EU	
	RTV-X1110	
	RTV-X1140	910.7
	RTV500	
Z122R-EU		
Construction machinery	K008-3	1019.8
	U10-3	
	U15-3	
	KX015-4/KX016-4	1047.4
	U17-3α	
	KX018-4/KX019-4	1018.0
	U20-3α	
	U27-4	
	KX027-4	
	KX030-4	938.3
	U36-4	
	KX037-4	

CO<sub>2</sub> was measured over Non-road steady-state test cycle (NRSC)