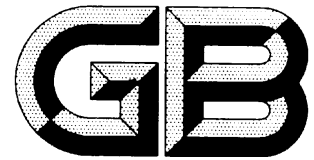


ICS 43.020

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NATIONAL STANDARD OF CHINA

GB 30510-2018

To substitute GB30510-2014

Fuel consumption limits for heavy-duty commercial vehicles

Released on 2018-02-06

Implemented on 2019-07-01

Jointly
released by

General Administration of Quality Supervision, Inspection and Quarantine of PRC

Standardization Administration of PRC

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Foreword

All the technical contents of this standard are mandatory.

This standard is drafted in accordance with the rules that prescribed in GB/T1.1-2009.

This standard shall replace GB 30510-2014 “Fuel consumption limits for heavy-duty commercial vehicles”, to compare with GB 30510-2014, the main changes are as follows:

- to tighten the fuel consumption limits for vehicle models;
- to introduce fuel consumption limits for gasoline straight trucks in the Class of 5,500 kg< GVW≤7,000 kg.

This standard is proposed and implemented by Ministry of Industry and Information Technology of People’s Republic of China.

Leading organization of drafting this standard: China Automotive Technology and Research Center (CATARC)

Participating organizations of drafting this standard: FAW, DONGFENG TRUCKS, CNHTC, JAC, YUTONG, YUCHAI, FOTON, FOTON-DAIMLER, SAIC, SHAANXI, HONGYAN, DONGFENG, DONGFENG LIUZHOU, JMC, SICHUAN HYUNDAI, LIUZHOU WULING, CAMC, C&C TRUCK, National Passenger Car Quality Supervision and Inspection Center (Tianjin), National Automobile Quality Supervision and Test Center (Xiangyang), Hanyang Special Purpose Vehicle Institute, National Motor Vehicle Quality Supervision and Inspection Center (Chongqing), DAIMLER TRUCKS AND BUSES CHINA, TOYOTA MOTOR ENGINEERING&MANUFACTURING CHINA, BOSCH AUTOMOTIVE DIESEL SYSTEMS and VOLKSWAGEN GROUP CHINA.

Leading persons of drafting this standard: WANG Zhao, ZHENG tianlei, JIN Yuefu, WANG Changyuan, ZHOU Xinwei, REN Shuaifei, WANG Shiqi, ZHANG Chunlong, LU Hai, GE Shengxun, JIANG Dejun, ZHANG Bo, XU Wei, MENG Quanguo, RAO Hongyu, BAO Weidong, ZHANG Jian, ZHANG Ming, CHEN Zhisong, YE Hongyu, DING Jikang, REN Biao, MA Ming, LI Yanshuo, DU Guoxing, YANG Pinglong, DU Baocheng, ZOU Xinran, LIU Xiaoling and FU Yinliang.

Fuel consumption limits for heavy-duty commercial vehicles

1 Scope

This Standard specifies the fuel consumption limits for heavy-duty commercial vehicles.

This standard applies to the gasoline and diesel fueled commercial vehicles with the maximum design GVW of being greater than 3,500 kg, including straight trucks, tractor-trailers, coaches, dump trucks and city buses.

This standard shall not apply to specialized vocational vehicles, including specialized vocational vans, specialized vocational tankers, specialized vocational dumpers, specialized vocational stake vehicles, specialized vocational cranes and specialized vocational vehicles with special structures.

2 Normative References

The following documents are indispensable references for this Standard. For dated documents, only the dated edition of the documents apply to this Standard, for undated documents, the latest edition of the documents (including all revision sheets) apply to this Standard.

GB/T 3730.1 Motor vehicles and trailers——Types——Terms and definitions

GB/T 3730.2 Road vehicle——Masses——Vocabulary and codes

GB/T 17350 Terms marks and designation for special purpose vehicles and special trailers

GB/T 27840-2011 Fuel consumption test methods for heavy-duty commercial vehicles

3 Terms and Definitions

The terms and definitions prescribed in GB/T3730.1, GB/T 3730.2, GB/T 17350 and GB/T 27840-2011 apply to this Standard.

4 General Requirements

For vehicle model, fuel consumption value that measured according to GB/T 27840-2011 (comprehensive condition) shall meet the fuel consumption limits that prescribed in this Standard.

5 Fuel Consumption Limits

5.1 Table 1 shows the fuel consumption limits for the fuel consumption values of straight trucks that measured according to GB/T 27840-2011 (comprehensive condition).

Table 1 Fuel consumption limits for straight trucks

GVW kg	Fuel consumption limits L/100km
3,500<GVW≤4,500	11.5 ^a
4,500<GVW≤5,500	12.2 ^a
5,500<GVW≤7,000	13.8 ^a

Table 1 (continue)

GVW kg	Fuel consumption limits L/100km
7,000<GVW≤8,500	16.3 ^a
8,500<GVW≤10,500	18.3 ^a
10,500<GVW≤12,500	21.3 ^a
12,500<GVW≤16,000	24.0
16,000<GVW≤20,000	27.0
20,000<GVW≤25,000	32.5
25,000<GVW≤31,000	37.5
31,000<GVW	38.5

a For gasoline vehicle, the limit is 1.2*limit, the calculated value shall be rounding up to one decimal place.

5.2 Table 2 shows the fuel consumption limits for the fuel consumption values of tractor-trailers that measured according to GB/T 27840-2011 (comprehensive condition).

Table 2 Fuel consumption limits for tractor-trailers

GCW kg	Fuel consumption limits L/100km
GCW≤18,000	28.0
18,000<GCW≤27,000	30.5
27,000<GCW≤35,000	32.0
35,000<GCW≤40,000	34.0
40,000<GCW≤43,000	35.5
43,000<GCW≤46,000	38.0
46,000<GCW≤49,000	40.0
49,000<GCW	40.5

5.3 Table 2 shows the fuel consumption limits for the fuel consumption values of coaches that measured according to GB/T 27840-2011 (comprehensive condition).

Table 3 Fuel consumption limits for coaches

GVW kg	Fuel consumption limits L/100km
3,500<GVW≤4,500	10.6 ^a
4,500<GVW≤5,500	11.5 ^a
5,500<GVW≤7,000	13.3 ^a
7,000<GVW≤8,500	14.5
8,500<GVW≤10,500	16.0

Table 3 (continue)

GVW kg	Fuel consumption limits L/100km
10,500<GVW≤12,500	17.7
12,500<GVW≤14,500	19.1
14,500<GVW≤16,500	20.1
16,500<GVW≤18,000	21.3
18,000<GVW≤22,000	22.3
22,000<GVW≤25,000	24.0
25,000<GVW	25.0

a For gasoline vehicle, the limit is 1.2*limit, the calculated value shall be rounding up to one decimal place.

5.4 Table 2 shows the fuel consumption limits for the fuel consumption values of dump trucks that measured according to GB/T 27840-2011 (comprehensive condition).

Table 4 Fuel consumption limits for dump trucks

GVW kg	Fuel consumption limits L/100km
3,500<GVW≤4,500	13.0
4,500<GVW≤5,500	13.5
5,500<GVW≤7,000	15.0
7,000<GVW≤8,500	17.5
8,500<GVW≤10,500	19.5
10,500<GVW≤12,500	22.0
12,500<GVW≤16,000	25.0
16,000<GVW≤20,000	29.5
20,000<GVW≤25,000	37.5
25,000<GVW≤31,000	41.0
31,000<GVW	41.5

5.5 Table 2 shows the fuel consumption limits for the fuel consumption values of city buses that measured according to GB/T 27840-2011 (comprehensive condition).

Table 5 Fuel consumption limits for city buses

GVW kg	Fuel consumption limits L/100km
3,500<GVW≤4,500	11.5
4,500<GVW≤5,500	13.0
5,500<GVW≤7,000	14.7

Table 5 (continue)

GVW kg	Fuel consumption limits L/100km
7,000<GVW≤8,500	16.7
8,500<GVW≤10,500	19.4
10,500<GVW≤12,500	22.3
12,500<GVW≤14,500	25.5
14,500<GVW≤16,500	28.0
16,500<GVW≤18,000	31.0
18,000<GVW≤22,000	34.5
22,000<GVW≤25,000	38.5
25,000<GVW	41.5

6 Conformity of Production (COP)

6.1 Vehicle fuel consumption shall be consistent with the approved vehicle model.

6.2 The COP supervision of vehicle fuel consumption shall be developed according to Appendix A or B of GB/T27840-2011, fuel consumption value shall be measured according to GB/T27840-2011(comprehensive condition), the deviation between the measurement result and the type approval value shall not exceed 6%.

7 Fuel Consumption Limits

For new application vehicle models, the standard shall be implemented from July 1, 2019;

For approved vehicle models, the standard shall be implemented from July 1, 2021.