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Underground load-haul-dump—Safety requirements

地下铲运机 安全要求

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Foreword

Clause 3, Clause 4 and Article 5.1.1 of this Standard are recommendatory, the rest are mandatory.

This Standard proposed by China Machinery Industry Federation

This Standard is under the jurisdiction of National Technical Committee (SAC/TC 88) on Mining Machinery of Standardization Administration of China.

The responsible drafting organization is Sinosteel Hengyang Machinery Co., Ltd.

The participate drafting organizations are Luoyang Mining Machinery Engineering Design Institute Co., Ltd, Nanchang Kaima Co., Ltd and Safety Test and Inspection Center for Mining Machinery and Electric Equipment (Changsha).

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Underground load-haul-dump—Safety requirements

1 Scope

This Standard specifies danger list of underground LHD, safety requirements and/or security measures as well as determination and information for use.

Restrictions of underground LHD referred by this Standard relate to physical properties and aspects of predetermining use. Safety requirements regulated by this Standard apply to danger generated by all stages of machine life period regulated by GB/T 15706.1.

Dangers that this Standard didn't involve is in accordance with GB/T 15706.1 and GB/T15706.2. In regard to danger of general machinery, electrical, hydraulic, air-operated and other devices are not included in this Standard.

This Standard applies to diesel underground LHD, electric underground LHD and remote control underground LHD used for metal and nonmetal underground mines, underground projects and tunnels.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB 755 Rotating electrical machines - Rating and performance (GB 755-2008, IEC 60034-1: 2004, IDT)

GB/T 1147.1 Small and medium power internal combustion engines—Part 1: General requirements

GB/T 1190 Technical specification of earth-mover tyres

GB/T 1251.1 Ergonomics - Danger signals for public and work areas - Auditory danger (GB/T 1251.1-2008, ISO 7731: 2003, IDT)

- GB/T 2883 Rims series for earth-mover (GB/T 2883-2002, ISO 4250-3: 1997, MOD)
- GB/T 2980 Size designation dimensions inflation pressure and load capacity for earth-mover tyres
- GB/T 3766 Hydraulic fluid power--General rules relating to systems (GB/T 3766-2001, eqv ISO 4413: 1998)
- GB 4351.1 Portable fire extinguishers—Part 1: Performance and construction
- GB 5008.1 Lead-acid starter batteries—Technical conditions (GB/T 5008.1-2005, IEC 60095-1: 2000, MOD)
- GB 5226.1-2008 Electrical safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1: 2005, IDT)
- GB/T 6072.1 Reciprocating internal combustion engines - Performance - Part 1: Declarations of power fuel and lubricating oil consumptions and test methods - Additional requirements for engines for general use (GB/T 6072.1-2008, ISO 3046-1: 2002, IDT)
- GB/Z 6829 General requirements for residual current operated protective devices (GB/Z 6829-2008, IEC/TR 60755: 2008, MOD)
- GB 7258-2004 Safety specifications for power-driven vehicles operating on roads
- GB/T 8196 Safety of machinery—Guards—General requirements for the design and construction of fixed and movable guards (GB/T 8196-2003, ISO 14120: 2002, MOD)
- GB/T 8420 Earth-moving machinery—Human physical dimensions of operators and minimum operator space envelope (GB/T 8420-2000, eqv ISO 3411: 1995)
- GB/T 8593 (All parts) Earth-moving machinery—Symbols for operator controls and other displays
- GB/T 8595 Earth-moving machinery - Operators controls (GB/T 8595-2008, ISO 10968: 2004, IDT)
- GB/T 9089.3 Electrical installations for outdoor sites under heavy conditions - Part 3:

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