

徐工 XGA5955D3T 汉沃 P9 左驾非公路宽体 自卸车技术规格书

XCMG XGA5955D3T HANWO P9 LHD OFF-ROAD WIDEBODY DUMP
TRUCK TECHNICAL SPECIFICATION



徐州徐工汽车制造有限公司

XUZHOU XCMG AUTO MANUFACTURING CO., LTD

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一、整车参数 Vehicle parameters

1. 参数配置 Parameters

	整机型号/Vehicle model		XGA5955D3T
设计质量参数 /Mass parameter	整备质量/Curb weight		33000kg
	载质量/Load capacity		62000kg
	最大允许总质量/GCW		95000kg
性能参数 /Performance	最高车速/Max. speed		48km/h
	最小转弯直径 /Min. turning diameter		11.5m
	最大爬坡度(\geq)/Grade ability		37%
	油箱容积/Fuel tank		700L
尺寸参数 /Dimensions	外形尺寸/Dimensions	长/Length	9045mm
		宽/Width	3460mm
		高/Height	4050mm
	轴距(mm)/Wheelbase		3800+1600
	轮距 /Wheel track	前轮/Front tire	2800mm
		后轮/Rear tire	2526mm
	最小离地间隙/Min.clearance		380mm
	接近角/Approach angle		28°
	离去角/Departure angle		42°
	前悬/Front overhang		1755mm
	后悬/Rear overhang		1890mm
	货厢尺寸(mm)/Cargo size		5900×3200×1650
驾驶室 /Cab	型号/Model		HANWO P9 L/RHD
	乘员人数/Passengers		1
发动机/Engine	型号/Model		WP12G530E310

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	总排量/Displacement		12.54L	
	额定功率/Output power		390kW/(r/min)	
	最大扭矩/Max. torque speed		2300N · m/(r/min)	
离合器/Clutch	型号/Model		Φ430 陶瓷离合器 /Ceramic clutch	
	操纵方式/Operation		液压操纵气助力/Hydraulic manual	
变速器 /Transmission	型号/Model		艾利逊 Allison 4800	双特 FC6A250
	取力器/PTO		CS10-A1005-J32X	AQH70
	操纵方式/Operation		软轴/Flexible shaft	
	前进档速比/Forward ratio		7.63-0.64	4.4-0.61
	倒档速比/Reverse ratio		4.8	3.97
驱动桥/Driven axle	型号/Model		35 吨 蓬翔桥/35T PENGXIANG 35 吨 汉德桥/35T HANDE	
	主减速器速比 /Main Reducer Ratio		15.66（蓬翔）/16.086（汉德）	
	制动器类型/Brake type		鼓式/Drum	
	差速锁/Differential lock		轴间差速锁/Inter-axle differential lock	
前轴 /Front axle	型号/Model		25 吨 蓬翔桥/20T PENGXIANG 25 吨 汉德桥/20T HANDE	
	制动器类型/Brake type		鼓式/Drum	
车轮 /Wheel	轮辋/Rim		10.00W-24	
	轮胎/Tire		14.00R25	
车架 /Frame	型式/Model		厢型梁 Box beam	
	主纵梁截面/HxW-t		480mm	
	车架总成宽度/Frame Width		1150mm	
悬架/Suspension	前/Front	型式/Type	钢板弹簧/Leaf spring	
		板簧片数 /Leaf springs	15	
	后/Rear	型式/Type	钢板弹簧/Leaf spring	
		板簧片数 /Leaf springs	15	

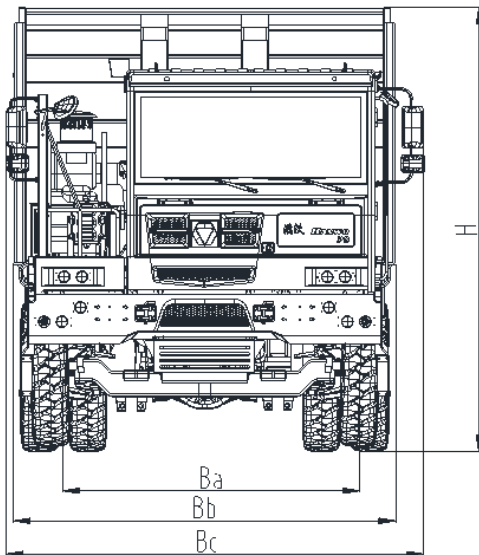
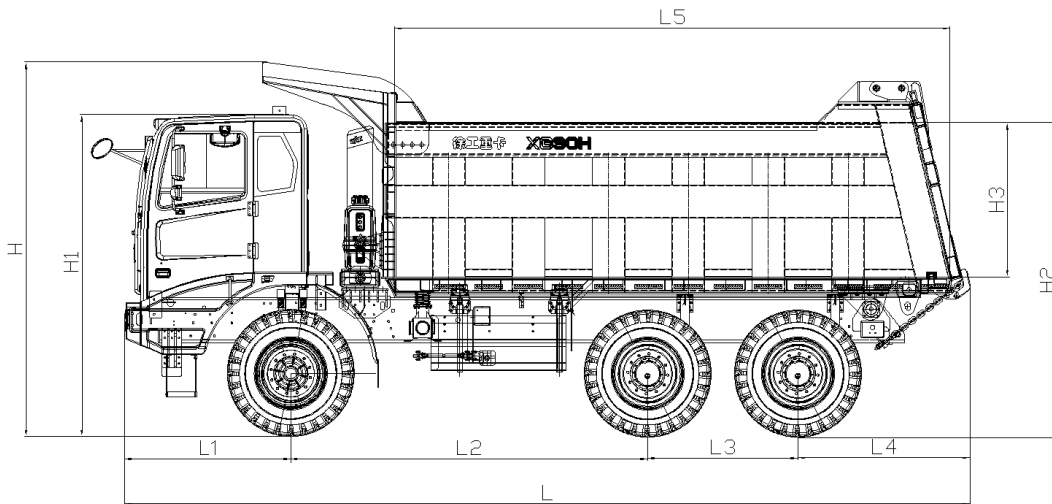
转向系/Steering	转向器型式/Model	全液压转向 /Circulating ball type hydraulic power
	转向器速比/Steering ration	23.04
	转向油泵最大压力 /Max pressure of pump	17MPa
制动系 /Brake System	额定工作压力/Rated pressure	1MPa
	行车制动系统型式 /Service brake system	双回路气压制动 /Dual circuit pneumatic braking
	驻车制动系统型式 /Parking brake system	弹簧储能断气制动 /Spring energy storage air brake
	辅助制动型式 /Auxiliary braking system	发动机排气制动+（选配缓速器） /Engine exhaust brake+ (Optional : Retarder)
电器系统 /Electrical system	电压/Voltage	24V
	发电机功率/Generator power	70A
	蓄电池电压/电容 /Battery voltage/capacitance	2×12V/165Ah

2. 主要零部件生产厂家 Main Parts Producers

序号 /No.	部件名称 /Parts name	生产商 /Manufacturer
1	发动机/Engine	潍柴/WeiChai Engine
2	变速箱/Transmission	陕西法士特/FAST
3	车桥/Axle	蓬翔/PengXiang 汉德/HANDE
4	油水分离器/Oil-water separator	潍柴/WeiChai Engine
5	传动轴/Transmission shaft	万象/WanXiang GROUP
6	制动器/Brake	瑞立/RuiLi
7	轮胎/Tire	昆仑/Kunlun/风神/AEOLUS
8	举升油缸/Lifting oil cylinder	海沃/HYVA
9	主泵/Main pump	海沃/HYVA
10	主阀/Main valve	海沃/HYVA
11	档位手柄/Gear handle	陕西法士特/FAST
12	离合器/Clutch	伊顿/Eaton

二、车辆照片 Vehicle pictures

1. 三视图 View drawings



外形尺寸 Appearance size	
L1 前悬/Front overhang	1755mm
L2 第一、二轴轴距/First and second wheel base	3800mm
L3 第二、三轴轴距/Second and third wheel base	1600mm
L4 后悬/Rear overhang	1890mm
L5 货箱长度/ Container length	5900mm
L 最大长度/Max length	9045mm
H1 驾驶室高度/Cab height	3420mm
H2 货箱离地高度/ Height of container above	3365mm
H3 货箱高度/Container height	1650mm
H 最大高度/Max height	4050mm
Ba 轮距/Wide track	2800mm
Bb 整车宽度/Overall width	3460mm
Bc 最大宽度/Max width	4025mm

2. 外观照片 Vehicle appearance





三、易损件清单 Wearing parts list

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序号 /NO.	图号 /Drawing No.	名称 /Part Name	500h 建议数量 /500h recommen ded quantity	6000h 建议数量 /6000h recommen ded quantity	12000h 建议数量 /12000h recommen ded quantity
1	459302245	1000424916 燃油水寒宝滤芯(备件专用) /Fuel water cold filter core(special for spare parts)	1	12	24
2	451101716	NXG1109TNM412-02 空滤器滤芯总成（安全滤芯）/Filter element gp-air filter(Safety Filter)	1	12	24
3	451101726	NXG1109TNM412-01 空滤器滤芯总成（主滤芯）/Filter element gp-air filter(Main Filter)	1	12	24
4	803276767	1000422382 燃油精滤芯 /Fuel refined filter core	1	24	48
5	803276768	1000422381 燃油粗滤器（备件用） / Primary fuel filter(for spare parts)	1	12	24
6	459301873	1000428205 机油滤清器滤芯(备件专用) /Oil Filter Filter Core(Special for Spare Parts)	2	24	48
7	454100772	XGA41TFW764-16010 组合后灯(左) /Combined rear light(left)		1	1
8	454100773	XGA41TFW764-16020 组合后灯(右) /Combined rear light(right)		1	1
9	453800345	NXG38WLAM111-32010 手制动报警开关/Hand Brake Alarm Switch		1	1
10	453801137	NXG3833ZLY141-010 空滤堵塞指示器 /Air filtration congestion indicator		0	1
11	453704025	NXG37ZLS131-37010 电源开关总成 /Power switch assembly		1	1
12	453705565	NCL37SRC-54020 电磁熄火阀控制器总成 /Electromagnetic Discharge Valve Controller Assembly		0	1
13	453701967	NXG37KFW73A-54010 电磁阀总成(四联) /Solenoid valve assembly(four-link)		1	2
14	458101254	NXG8103WKA111R-010 压缩机总成/Compressor Assembly		1	2
15	451704348	NXG17KFW735-03010 操纵器总成 /Manipulator Assembly		1	2
16	453705251	NCL37DM-21010 高音盆型电喇叭总成(24V) /Tweeter type electric horn assembly (24V)		0	1
17	453705224	NCL37DM-21020 低音盆型电喇叭总成(24V) /Subwoofer type electric horn assembly(24V)		0	1
18	453707625	NXG37WLF74B8-74200 右组合开关(尤顺制动) /Right combination switch(Youshun brake)		1	2

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19	453708614	NXG37WLFW6B1-04000 点火开关组件（含钥匙+门锁芯+油箱盖） /Ignition switch assembly(including key + lock core + fuel tank cover)		0	1
20	453703619	NXG37WLAM111-74100 左组合开关 Left combination switch		1	2
21	453703900	NXG37WLAM111-30200 备用电源总成(24V 15A) /Spare Power Assembly(24V15A)		1	1
22	453708751	NXG37NMBW111-09200 灯光及调光开关总成/Light and dimming switch assembly		1	1
23	452200939	NXG2205KFW112-020 传动轴带滑动叉总成/Drive shaft sliding fork assembly		1	1
24	452200240	NXG2201TFW111-020 传动轴带滑动叉总成/Drive shaft sliding fork assembly		0	1
25	453700781	NXG37TFW111-29040 倒车报警器总成/Reverse Alarm Assembly		0	1
26	453703481	NXG37TFW111-70010 快速预热电子控制盒(需单采) /Fast Preheating Electronic Control Box(to be picked)		0	1
27	453402103	NXG3407TFW111-010 转向油泵 /Steering pump		1	2
28	453402716	NXG34TFW111-06016 吸油管总成 II /Pipe assembly II		1	2
29	453506080	NXG35PLW22H-06105 耐高温管总成/High-temperature tube assembly		1	1
30	453402891	NXG34TNW111R-06040 左助力转向油管总成(硬) /Left Power Steering Pipe Assembly(Hard)		1	1
31	453402892	NXG34TNW111R-06045 右助力转向油管总成(硬) /Right power steering tubing assembly(hard)		1	1
32	453402697	NXG34TFS111-06025 高压软管总成 /High Pressure Hose Assembly		1	2
33	453402733	NXG34TFW111-06055 左助力转向油管总成/Left Power Steering Pipe Assembly		1	2
34	453402734	NXG34TFW111-06060 右助力转向油管总成/Right power steering tubing assembly		1	2
35	453402738	NXG34TFW111R-06030 回油管总成(硬) /Oil return pipe assembly(hard)		1	2
36	453505069	NXG3527WLAM111-050 差动式继动阀总成/Differential secondary valve assembly		1	2
37	453402156	NXG3411TFW111-020 转向随动器 /Steering follower		1	2

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38	453402735	NXG34TFW111R-03111 转向垂臂-转向器/Pitman arm steering gear		1	1
39	453402736	NXG34TFW111R-03121 转向垂臂-随动器/Pitman shaft follower		1	1
40	453402152	NXG3411RFW141-010 动力转向器总成/Power steering gear assembly		1	1
41	453402702	NXG34TFW111-03010-A 转向直拉杆-转向器/A steering straight rod steering gear		1	1
42	453402707	NXG34TFW111-03020-A 转向直拉杆-随动器/A steering tie rod follower		1	1
43	453503704	NXG3511WEFWA31-010 组合式空干器总成/Combined air dryer assembly		1	1
44	453402132	NXG3408TFW111-010-B 转向油罐总成/Steering oil tank assembly		1	1
45	453504778	NXG3517WLFW541-010 手控阀总成/Manual control valve assembly		1	1
46	451103802	NXG11TFW111-09343 中冷器气管/Inter-cooler air pipe		1	2
47	451103719	NXG11TFW111-09353 中冷器气管/Inter-cooler air pipe		1	2
48	451103701	NXG11TFW111-09030 T 型环箍/T-type hoop		1	2
49	451102270	NXG11TNM412-09056 胶管/Rubber hose		1	2
50	451600489	NXG16TFW111R-07080 离合器后油管总成/Clutch rear oil pipe assembly		1	2
51	451300196	NXG13TFW111-03022 发动机进水胶管/Engine water inlet hose		1	2
52	451301202	NXG13TFW111-11067 前回水胶管/Front return hose		1	2
53	451302721	NXG13TFW114-11011 散热器除气胶管/Radiator degassing hose		1	2
54	451301426	NXG13TFW261-03021 散热器出水胶管/Radiator outlet hose		1	2
55	454100409	NXG41TFW111-17030 工作灯总成/Work light assembly		1	2
56	451600136	NXG1604PFM181-050 离合器助力器总成 /Clutch booster assembly		1	2
57	451600664	NXG16TFW111-02050 离合器分离轴承总成 /Clutch release bearing assembly		1	2
58	451600665	NXG1601TFW111-130 离合器从动盘总成/Clutch driven plate assembly		1	2
59	451600765	NXG1601TFW211-090 离合器盖和压盘总成/Clutch cover and pressure plate assembly		1	2

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60	455000728	NXG50TFW111-02340-A 手动液压泵总成 /A manual hydraulic pump assembly		1	2
61	453502200	NCL3549DJD-010 排气制动碟阀总成 /Wxhaust brake disc valve assembly		1	2
62	453800346	NXG38WLAM111-26010 气压传感器 /Air pressure sensor		1	2
63	451001101	NXG10KLY421-01070 发动机后悬置软垫总成 /Engine rear mount cushion assembly		1	2
64	451000389	NXG10TNW111-01020 发动机前悬置软垫总成 /Engine front mounting cushion assembly		1	2
65	458200301	NXG8202KFW111-020 长后视镜 /Long rear view mirror		1	2
66	458200273	NXG8202KFW111-073 方后视镜 /Square rear view mirror		1	2
67	452902479	NXG2919TFM111-010-A 后悬架上推力杆总成(中上) /A rear suspension upper thrust rod assembly (upper middle)		1	2
68	452902484	NXG2919TFM111-030-A 后悬架上推力杆总成(后上) /A rear suspension upper thrust rod assembly (middle and upper)		1	2
69	452902497	NXG2919TFW111-020-C 下推力杆总成(中下) /C lower thrust rod assembly (lower middle)		1	2
70	452902500	NXG2919TFW111-040-C 下推力杆总成(后下) /C lower thrust rod assembly (lower rear)		1	2
71	454100534	NXG41TFW111-17040 倒车照明灯总成/Reversing lamp assembly		1	2
72	452902560	NXG2921TFW111-010 减振器总成 /Damper assembly		1	2
73	452902878	NXG29TFW111-01271 减振器下销 /Damper lower pin		1	2
74	452902879	NXG29TFW111-01274 减振器上销 /Damper upper pin		1	2
75	452901811	NCL29DUH-02262 吊耳销-后悬架 /Lifting eye pin - rear suspension		1	2
76	452901923	NXG2906KFW111-014 隔套/Spacer		1	2
77	453502216	NXG3527WLFW6B1-010 继动阀总成 /Relay valve assembly		1	2
78	453500792	NXG3533TFW111-010 快放阀 /Quick release valve		1	2
79	451103885	NXG11TFH121-01122 油箱箍带垫带 /Oil tank strap gasket		1	2

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80	451103884	NXG11TFH121-01123 油箱托架垫带 /Oil tank bracket gasket		1	2
81	455002571	NXG50TFW111-01030 前悬置硫化套总成/Front suspension vulcanization sleeve assembly		1	2
82	455003050	NXG50TFW111-04310 液压锁总成 /Hydraulic lock assembly		1	2
83	451704636	NXG17WSFW531-06017 压紧套筒 /Compression sleeve		1	2
84	452902873	NXG29TFW111-01106 缓冲块-后悬架 /Buffer block - rear suspension		1	2
85	452903488	NXG29ZFS412-02131 U 型螺栓-后悬架 /U-bolt - rear suspension		1	2
86	452902898	NXG29TFW111-05011-A 螺栓-推力杆用 /A bolt for thrust rod		1	2
87	452902902	NXG29TFW111-05013-A 螺栓-推力杆用 /A bolt for thrust rod		1	2
88	805805842	Q-22-700W 软管总成/Hose assembly		1	2
89	452902891	NXG29TFW111-02252 钢板弹簧销-前悬架/Leaf spring pin - front suspension		1	2
90	452902887	NXG29TFW111-02139 导向板 /Guide plate		1	2
91	452902894	NXG29TFW111-04026 胶块/Rubber block		1	2
92	453502111	NCL3513DM-060 放水阀总成 /Drain valve assembly		1	2
93	451700177	NXG17PAW421-06015 辅助支撑悬置软垫 /Auxiliary support suspension cushion		1	2
94	452902900	NXG29TFW111-05012-A 螺栓-推力杆用 /A bolt for thrust rod		1	2
95	452902904	NXG29TFW111-05014-A 螺栓-推力杆用 /A bolt for thrust rod		1	2

四、装箱清单 Packing list

1. 装箱清单 Packing list

箱件编号 /Box No.	规格型号 /Model	品名 /Name	包装 /Packing	毛重 (KG) /Weight	尺寸（长宽高 MM） /Dimensions
1	XGA5955D3T	非公路自卸车/Off-highway Dump Truck	裸装 /Nude packing	33000	9045×3460×4050
2	置于驾驶室内 /In the cab	随机工具箱/Vehicle tool box	塑料箱 /Plastic box	10	460*230*200

2. 随机工具目录 Vehicle tool list

序号 /NO.	图号 /Drawing No.	名称 /Part Name	数量 /Amount
1	NXG39WLAM111-01011	套筒头/Sleeve Head(10)	1
2	NXG39WLAM111-01012	套筒头/Sleeve Head(11)	1
3	NXG39WLAM111-01013	套筒头/Sleeve Head(13)	1
4	NXG39WLAM111-01016	套筒头/Sleeve Head(16)	1
5	NXG39WLAM111-01018	套筒头/Sleeve Head(18)	1
6	NXG39WLAM111-01021	套筒头/Sleeve Head(21)	1
7	NXG39WLAM111-01024	套筒头/Sleeve Head(24)	1
8	NXG39WLAM111-01027	套筒头/Sleeve Head(27)	1
9	NXG39WLAM111-01029	套筒头/Sleeve Head(30)	1
10	NXG28WLAM111-01035	套筒头/Sleeve Head(33)	1
11	NXG39WLAM111-01031	棘轮扳手/Ratchet wrench	1
12	NXG39WLAM111-01032	接杆/Jaw	1
13	NXG39XZ300-10101	灭火器/Fire Extinguisher	1
14	NXG39WKAW111R-01033	梅花扳手/Ring spanner(8×10)	1

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15	NXG39WKAW111R-01034	梅花扳手/Ring spanner(9×11)	1
16	NXG39WKAW111R-01035	梅花扳手/Ring spanner(12×14)	1
17	NXG39WKAW111R-01036	梅花扳手/Ring spanner(13×16)	1
18	NXG39WKAW111R-01037	梅花扳手/Ring spanner(17×19)	1
19	NXG39WKAW111R-01038	梅花扳手/Ring spanner(18×21)	1
20	NXG39WKAW111R-01039	梅花扳手/Ring spanner(22×24)	1
21	NCL3913DN-020	16 吨千斤顶总成/16 ton Jack assembly	1
22	NXG39WLAM111-01067	内六角扳手/Inner hexagon wrench	1
23	NXG39WLAM111-01100	十字起总成/Cross - shaped starter assembly	1
24	NXG39WLAM111-01120	一字起总成/A zigzag starter assembly	1
25	NXG39WLAM111-01125	手锤总成/Hand-hammer assembly	1
26	NXG39WLAM111-01140	鲤鱼钳总成/Carp clamp assembly(8")	1
27	NXG39WLAM111-01146	轮胎撬棒兼千斤顶摇臂 /Tyre lever and jack rocker	1
28	NXG3911WLAM111-010	润滑脂枪总成/Grease gun assembly	1
29	NXG3912WLAM111-010	轮胎气压表与表壳总成 /Tire gauge and case assembly	1
30	NXG39WLAM111-15010	小活动扳手总成 /Small adjustable wrench(200X24)	1
31	NXG39WLAM111-15020	大活动扳手总成/Adjustable wrench(300X36)	1
32	NXG37WLAM111-15010	工作灯总成/Working light assembly(24V)	1
33	NXG3926WLAM111-010	三角警告牌总成/Triangle warning signs	1
34	NXG3919WLAM111-010	随车工具包总成/The toolbox assembly	1

五、质量保修期 Quality warranty related

1. 整机质保周期 Vehicles warranty period

整机质保期为车辆出厂 12 个月，不同车型小时数不同，详情请见零部件质量保修期限细则。

The vehicle warranty is 12 months after the vehicle leaves the factory. The warranty period is different via different vehicle models. You can see the ‘Warranty period of parts and components’ for more details.

系统 system	类别 category	零部件名称 parts name	非公路重 型自卸车 Off-highway heavy dump truck
车身 Cab	基础件 Basic parts	驾驶室壳体、车门壳体、驾驶室顶盖、底板、侧围、前后围等焊接合件 Cab shell, door shell, cab top cover, bottom plate, side circumference, front and back circumference and other welded joints	12
	一般件 Normal parts	下悬臂焊接总成、座椅、驾驶室支承、驾驶室举升缸、驾驶室举升泵、锁止、调整 机构、卧铺总成、空调压缩机、底板装饰件、车门、顶盖、侧围、前后围附件、安全带、保险杠、玻璃升降机构，车轮挡泥板、左右翼子板、各种支架、车身标志、风窗零部件、刮水器及洗涤器、脚踏板、门锁、暖风装置、前围及附件、仪表板、音响装置、全车线束 Lower cantilever welding assembly, seat, cab support, cab lifting cylinder, cab lifting pump, locking, adjusting mechanism, sleeper assembly, air conditioner compressor, bottom decoration, door, top cover, side circumference, front and rear circumference accessories, safety belt, bumper, glass lifting mechanism, Wheel fender, left and right sub-boards, various brackets, body signs, wind window parts,	6

XCMG OFF-ROAD WIDEBODY MINING DUMP TRUCK TECHNICAL SPECIFICATION

		wiper and scrubber, footpedal, door lock, warm air device, front perimeter and accessories, instrument panel, sound device, wiring harness	
	易损件 Quick-wearing parts	驾驶室各种内饰橡塑件、驾驶室各种外饰橡塑件、各种软轴、拉索、拉线、针织品、人造革、后视镜、其它线束、后视镜、倒车镜 All kinds of rubber and plastic parts of cab interior, all kinds of rubber and plastic parts of cab exterior, all kinds of soft shaft, cable, cable, knitted goods, artificial leather, rearview mirror, other wiring harness, rearview mirror, reverse mirror	3
车架 Frame	基础件 Basic parts	主车架 The main frame	12
	主要件 Main parts	元宝梁、管状横梁、其它车架横梁 Ingot beam, tubular beam, other frame beam	9
	一般件 Normal parts	车架外挂件、蓄电池支架、油箱支架、变速箱横梁支架、备胎支架、减振器支架、发动机支架、车身支架、缓冲块支架、储气筒支架、后管梁支架、中间支座、加强板、各种支架、吊耳 Frame external hanger, battery support, fuel tank support, transmission beam support, spare tire support, shock absorber support, engine support, body support, buffer block support, gas storage cylinder support, rear beam support, middle support, strengthening plate, various supports, lug	6
变速器 Transmission	基础件 Basic parts	变速器壳体、取力器壳体 Transmission housing, PTO housing	12
	主要件 Main parts	操纵器总成、选档、换挡拉杆总成、换挡摇臂总成、伸缩杆总成、脱钩油缸总成、四角支架总成、变速箱上盖、后盖、轴承盖、一轴、二轴、中间轴、倒档轴、各种齿轮、变速器拨叉、拨叉	9

XCMG OFF-ROAD WIDEBODY MINING DUMP TRUCK TECHNICAL SPECIFICATION

		<p>轴、离合器壳体、同步器、变速器换档操纵机构、操纵机构支座、纵拉杆支座、变速器的支撑装置、变速器操纵机构的球头、顶盖、突缘、副箱主轴、焊接轴、后盖壳体、里程表接头总成、取力器总成（壳体除外）、取力器内各齿轮、轴、操纵机构、中继轴、变速器的支撑装置、变速器操纵机构的球头、变速箱弹簧梁、托架、弹簧梁支架</p> <p>Manipulator assembly, gear selection, shift rod assembly, shift rocker arm assembly, telescopic rod assembly, decoupling cylinder assembly, four Angle bracket assembly, transmission cover, back cover, bearing cover, one shaft, two shafts, intermediate shaft, reverse shaft, all kinds of gear, transmission pull Fork, fork shaft, clutch shell, synchronizer, transmission shift operating mechanism, operating mechanism, support, the support of vertical rod bearing, transmission device, the operating mechanism of the transmission of ball head, head, flange, deputy box spindle, welding shaft, back cover case, odometer joint assembly, take power assembly (except shell), take force in each gear, shaft, operating mechanism, relay, variable speed Support device, ball head of transmission control mechanism, transmission spring beam, bracket, spring beam support</p>	
	一般件 Normal parts	变速器用气阀、双 H 阀、开关 Air valve, double H valve, switch for Transmission	6
	易损件 Quick-wearing parts	拉杆球头、中间隔套、复合衬套、密封垫片、变速箱卡环、轴承 Pull rod ball head, interval sleeve,	3

XCMG OFF-ROAD WIDEBODY MINING DUMP TRUCK TECHNICAL SPECIFICATION

		composite bushing, sealing gasket, transmission ring, bearing	
缓速器 Retarder	基础件 Basic parts	缓速器壳体、缓速器盖 Retarder housing, retarder cover	12
	主要件 Main parts	转子、定子、法兰盘、空心轴 Rotor, stator, flange, hollow shaft	9
	一般件 Normal parts	热交换器、控制器、控制阀、O型圈、气管、油封、温度传感器、线束 Heat exchanger, controller, control valve, O-ring, gas pipe, oil seal, temperature sensor, wire harness	6
离合器 Clutch	主要件 Main parts	离合器操纵机构、油罐总成、油管总成、离合摇臂 Clutch control mechanism, oil tank assembly, oil pipe assembly, clutch rocker arm	9
	一般件 Normal parts	离合器总泵（不含密封件）、离合器助力泵（不含密封件）、离合器分离轴承、离合器压盘总成、储油筒 Clutch main pump (without seals), clutch booster pump (without seals), clutch separation bearing, clutch pressure plate assembly, oil storage cylinder	6
	易损件 Quick-wearing parts	离合器从动盘、离合器总泵密封件、离合器助力泵密封件、离合器踏板回动弹簧 Clutch driven plate, clutch master pump seals, clutch booster pump seals, clutch pedal reversing spring	3
转向传动 Steering and drive	基础件 Basic parts	前轴、二桥轴 Front axle, second axle	12
	主要件 Main parts	凸轮轴、凸轮轴支架、横拉杆总成、转向直拉杆臂、转向横拉杆臂、转向节、转向节臂、主销、转向横、纵拉杆、转向垂臂 Camshaft, camshaft support, tie rod assembly, steering straight rod arm,	9

XCMG OFF-ROAD WIDEBODY MINING DUMP TRUCK TECHNICAL SPECIFICATION

		steering tie rod arm, steering knuckle, steering knuckle arm, kingpin, steering tie rod, longitudinal tie rod, steering swing arm	
	一般件 Normal parts	传动轴、万向节总成、中间支撑总成、转向机总成（不含密封件）、转向机油罐、转向柱支架、转向传动系统（万向节除外）、转向助力泵、方向盘、转向助力缸、助力缸总成、转向垂臂、二桥摇臂总成、油管总成、直拉杆总成、中间臂总成、中间臂支架焊合、转向减振器总成 Drive shaft, universal joint assemblies, steering machine assemblies, intermediate support assembly (excluding the seals), turning machine oil tank, steering column, steering transmission system (except universal joint), steering booster pump, steering wheel, steering cylinder, booster cylinder assembly, steering arm, the second axle rocker arm assembly, tubing assembly, straight rod assembly, intermediate, intermediate arm bracket arm assembly solder, steering damper assembly	6
	易损件 Quick-wearing parts	转向节衬套、万向球接头、轴承、回位弹簧、轴密封圈 Knuckle bushing, universal ball joint, bearing, return spring, shaft seal ring	3
中后桥 Middle axle and rear axle	基础件 Basic parts	中、后桥壳、主减速器壳、差速器壳体、轴承座 Middle and rear axle housing, main reducer housing, differential housing, bearing housing	12
	主要件 Main parts	圆柱齿轮壳、过桥箱壳体、轮胎螺栓、过桥箱盖 Cylindrical gear housing, axle box housing, tyre bolt, axle box cover	9

	<p>一般件 Normal parts</p>	<p>各种齿轮、十字轴、轮边减速器壳体、轮边行星架、行星轮轴、齿圈支架、内齿圈、端盖、空心轴、轮毂、油封座、突缘、隔圈、差速器轴承盖紧固螺栓、差速器壳及被动齿轮紧固螺栓、铆钉、主减速器壳与桥壳平面结合面漏油、过桥箱壳体接合面漏油、主减速器主被动锥齿轮间隙调整不当引起的主减速器发热异响</p> <p>All kinds of gear, cross shaft, wheel edge reducer housing, wheel edge planetary frame, planet axle, gear ring bracket, inner gear ring, End cover, hollow shaft, wheel hub, oil seal, flange bolt, baffle, differential bearing cover, passive gear differential shell and tighten bolts, rivets, main reducer shell with axle housing plane surface joint surface oil spill, the axle box shell, main reducer main passive spiral bevel gear clearance adjusting improper adjustment of main reducer heat sound</p>	6
	<p>易损件 Quick-wearing parts</p>	<p>差速锁总成、贯通轴、半轴、中、后桥内各轴承、贯通轴卡环、档圈、隔套、花键套、调整垫、密封件、橡胶件、圆柱销、挡油罩、回位弹簧</p> <p>Differential lock assembly, through shaft, half shaft, middle and rear axle bearings, through shaft clamp ring, stop ring, partition sleeve, spline sleeve, adjusting pad, seals, rubber parts, cylinder pin, oil shield, return spring</p>	3
<p>制动系统 Brake</p>	<p>主要件 Main parts</p>	<p>制动气室（不含橡胶密封件）、制动气室支架、凸轮轴支架、储气筒（不含橡胶密封件）、制动凸轮轴及滚轮、制动蹄及支撑销、滚轮、档尘板、制动底板、制动踏板总成、摇臂连杆</p> <p>Brake chamber (excluding rubber seals), brake chamber support, camshaft support, air storage cylinder (excluding rubber seals),</p>	9

XCMG OFF-ROAD WIDEBODY MINING DUMP TRUCK TECHNICAL SPECIFICATION

		brake camshaft and roller, brake shoe and support pin, roller, dust plate, brake bottom plate, brake pedal assembly, rocker arm connecting rod	
	一般件 Normal parts	各种阀类总成（不含橡胶密封件）、排气制动蝶阀、空气干燥器、制动调整臂、制动鼓、制动管束（橡胶件）、制动总泵 All kinds of valve assemblies (excluding rubber seals), exhaust brake butterfly valve, air dryer, brake adjusting arm, brake drum, brake bundle (rubber parts), brake master pump	6
悬挂系统 Suspension system	基础件 Basic parts	平衡轴总成（除油封） Balance shaft assembly (except oil seal)	12
	主要件 Main parts	前、后稳定杆总成 Front and rear stabilizer bar assembly	9
	一般件 Normal parts	推力杆总成（不含胶套）、推力杆连接螺栓、传动轴吊架、提升器架总成、拉臂总成（不含拉臂衬套）、连车桥固定架总成、气囊上座板、扭力杆调整螺付（不含扭力杆衬套）、承载气囊（包括各类气囊接头）、提升气囊（包括各类气囊接头）、导向板、调整板、板簧压板、平衡轴壳（板簧座）、U 型螺栓 Thrust rod assembly (excluding glue set), thrust rod connecting bolts, hanger, lifter rack drive shaft assembly, arm assembly (excluding arm bushing), even the axle fixed frame assembly, air gate plate, torsion bar adjustment screw (excluding torque rod bushing), loading gasbag (including all kinds of airbag connector), improve air bags (including all kinds of airbag connector), guiding, adjusting plate, plate spring	6

		clamp , balance shaft housing (plate spring seat), U bolts	
	易损件 Quick-wearing parts	螺旋弹簧、减震器、钢板弹簧及吊耳、销、轴、衬套、平衡轴轴承、阻尼转向器、稳定杆胶套、稳定杆衬套、提升器轴衬套（长）、提升器轴衬套（短）、拉臂轴衬套、推力杆衬套、限位块 Screw spring, shock absorber, leaf spring and lug, pin, shaft, bushing, balancing shaft bearing, damping steering gear, stabilizer bar rubber sleeve, stabilizer bar bushing, elevator bushing (long), elevator bushing (short), pull arm bushing, stinger bushing, limit block	3
空调和 电器 Air conditioning and electrical appliances	主要件 Main parts	冷凝器芯体、蒸发器芯体、蒸发器膨胀阀、室内外温度传感器、空调电动/手动控制面板、ABS 控制器、ABS 电磁阀及传感器、点火锁、点烟器、组合开关、各类开关、二合一控制器、雨刷间隙控制器、熄火控制器、收放机、雨刮电机及雨刮喷水电机、鼓风机电机、电控气断油缸、蜂鸣器、时钟弹簧、断丝报警控制器、组合仪表、CBCU、传感器、蓄电池、VCD evaporator, condenser, evaporator core body core body expansion valve, air conditioning, indoor and outdoor temperature sensor electric/manual control panel, ABS solenoid valve, ABS controller and sensor, ignition lock, cigarette lighter, combination switch, all kinds of switches, combined controller,	9

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		wiper controller, stall controller clearance, cassette player, wiper motor and wiper motor, fan motor and electricity Control gas break cylinder, buzzer, clock spring, wire break alarm controller, combination instrument, CBCU, sensor, battery, VCD	
	易损件 Quick- wearing parts	气电喇叭、天线、电磁阀、继电器、各种照明 灯、闪光器 Gas - electric horn, antenna, solenoid valve, relay, all kinds of lights, flasher	3
防撞杠 和牵引装置 Bumpers and traction devices	主要件 Main parts	大灯连接支架、牵引钩 Headlamp connection bracket, traction hook	9
车轮 Wheel	一般件 Normal parts	轮辋(钢圈) Rim (steel ring)	6
牵引车 上装 Tractor top	主要件 Main parts	鞍座 The saddle	—
	主要件 Main parts	油罐车副车架、油罐车罐体总成 Tank car sub-frame, tank car body assembly	—

XCMG OFF-ROAD WIDEBODY MINING DUMP TRUCK TECHNICAL SPECIFICATION

油罐车 上装 Tank truck top	一般件 Normal parts	升降支腿、油罐车油泵、传动轴、流量计、球阀、进口油气回收阀、接头阀、防溢漏装置、油品显示器、进口人孔盖、进口底阀、进口卸油阀、油罐车安全阀、油气分离器、紧急阀、气控系统（组合开关、护栏锁、挡块、气管 等）、进口叶片泵 Lift leg, fuel pump, a transmission axis, a flowmeter, ball valve, imported oil and gas recovery valve, joint valve, oil spill prevention device, product display, imported manhole cover, bottom valve, imported oil unloading valve, safety valve oil tank truck, oil and gas separator, emergency valve, gas control system (combination switch, guardrail lock, stop, trachea, etc.), the import of vane pump	6
	易损件 Quick- wearing parts	油罐车管路上各法兰连接部位密封件 Sealing parts of flange connection on oil tank truck pipeline	——
自卸车 上装 Dump truck loading	主要件 Main parts	自卸车副车架、车厢、齿轮泵、油缸、油缸接头、丁字轴、油缸杆、高低压油管管体及接头、三角臂及拉杆金属结构部分、上盖铸件、自卸车上装各种铸件、结构件、储油箱总成、平衡架 Dump truck sub-frame, carriage, gear pump, cylinder, cylinder joint, T-axis, cylinder rod, high and low pressure oil pipe body and joint, triangle arm and pull rod metal structure part, cover casting, dump truck mounted all kinds of casting, structural parts, oil tank assembly, balance frame	9
	易损件 Quick- wearing parts	各种油封、O 型圈、三角臂及拉杆衬套部分、油缸上盖衬套、各种控制阀 All kinds of oil seals, O-rings, triangle	3

XCMG OFF-ROAD WIDEBODY MINING DUMP TRUCK TECHNICAL SPECIFICATION

		arm and pull rod bushing parts, oil cylinder cover bushing, all kinds of control valves	
搅拌车上装 Mixer truck loading	主要件 Main parts	减速机、冷却器、液压传动系统变量泵、定/变量马达、液压油箱、远程油门 Reducer, cooler, variable pump of hydraulic transmission system, constant/variable motor, hydraulic fuel tank, remote throttle	——
	一般件 Normal parts	扶梯、滚桶、后保险杠、护栏、加水槽、搅拌桶、搅拌叶片、进料斗、进料斗护罩、溜槽、溜槽护罩、轮罩、水泵、水枪、锁紧架、托轮总成、卸料槽、压力表、压力水箱、支撑架 Escalator, roller barrel, rear bumper, guardrail, water tank, mixing barrel, mixing blade, feed hopper, feed hopper cover, chute, chute cover, wheel cover, water pump, water gun, locking frame, supporting wheel assembly, discharge tank, pressure gauge, pressure water tank, support frame	6
天然气专用件 Special parts for natural gas	基础件 Basic parts	气瓶支架、天然气气瓶 Gas cylinder support, natural gas cylinder	12
	主要件 Main parts	CNG 燃气管路、喘振阀、燃料喷射阀、热交换器、充气阀、液相阀、气相阀、安全阀、汽化器 CNG gas pipeline, surge valve, fuel injection valve, heat exchanger, charging valve, liquid valve, gas valve, safety valve, carburetor	9
	一般件 Normal parts	点火模块、电子节气门、废气控制阀、各类金属气管、混合器总成、进气弯管、气管接头、燃气节温器、信号发生器总成、燃料计量阀、喉管、喷射管、过流保护电磁阀、LNG 金属编织软管、安全阀、变送器、水浴式汽化器、压力表、液位显示器、充气接口、回气接口、出液阀、增压阀、放空阀、增压调节阀、经济阀、过流保护阀、单向阀、加气面板、燃气报警器、氧传感器、温控一体模	6

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		<p>块、三元催化器、、高压电磁阀、过流保护阀、减压阀、稳压阀、加气面板</p> <p>Ignition module, electronic throttle, exhaust valve, all kinds of metal pipe, mixer assembly, air inlet pipe, pipe fittings, gas thermostat, signal generator assembly, fuel metering valve, pipes, injection pipe, over-current protection metal braided hose, relief valve, solenoid valve, LNG transmitter, water bath carburetor, pressure gauge, liquid level indicator, air interface, back to the interface, Discharge valve, booster valve, vent valve, booster regulating valve, economic valve, overflow protection valve, one-way valve, gas panel, gas alarm, oxygen sensor, temperature control integrated module, three catalytic converters, high pressure solenoid valve, overflow protection valve, pressure reducing valve, pressure regulating valve, gas panel</p>	
	<p>易损件</p> <p>Quick-wearing parts</p>	<p>聚氨酯燃气管、橡胶软管</p> <p>Polyurethane gas pipe, rubber hose</p>	3
	<p>一般件</p> <p>Normal parts</p>	<p>电气控制箱、高压点火线圈、高压线、高压电磁阀、发动机各类传感器、减压器、稳压器、继电器、电磁通断阀</p> <p>Electrical control box, high voltage ignition coil, high voltage line, high voltage solenoid valve, all kinds of engine sensors, pressure regulator, voltage regulator, relay, electromagnetic on and off valve</p>	6

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	易损件 Quick-wearing parts	火花塞、天然气燃气滤清器 Spark plug, natural gas gas filter	3
国IV以上 The above IV	一般件 Normal parts	行驶记录仪、尿素泵总成、尿素罐总成、尿素管、后处理管路 Driving recorder, urea pump assembly, urea tank assembly, urea pipe, post-treatment pipeline	6
	一般件 Normal parts	SCR 系统各类传感器、各类软管、尿素液位传感器 SCR system all kinds of sensors, hoses, urea level sensors	6
	易损件 Quick-wearing parts	SCR 系统各类滤网、康明斯后处理系统油水分离器 SCR system all kinds of filter screen, Cummins post treatment system oil and water separator	3
其它 Other	一般件 Normal parts	各类卡箍、各种制动钢管及软管 All kinds of clamp, all kinds of brake steel pipe and hose	6
	易损件 Quick-wearing parts	翻转轴套、副水箱、各种标准件、紧固件、油封或密封圈、各种油口盖、皮带、配电盒、膨胀阀、推力杆胶套、橡胶缓冲块、轮胎、保险、玻璃、皮带皮革制品 Rotating sleeve, auxiliary water tank, various standard parts, fasteners, oil seal or sealing ring, various cap, belt, distribution box, expansion valve, stinger rubber sleeve, rubber buffer block, tire, insurance, glass, leather belt products	3

下列情况不属于质量保证范围：

1. 不按《徐工重卡用户保用手册》和《产品使用说明书》的要求进行规定的走合保养、各级里程保养引起的损坏。

The damage caused by the specified running maintenance and mileage maintenance caused by not following the requirements of XCMG heavy truck user warranty manual and product operation manual.

2. 不按使用说明书的要求，非正确使用，超载、超限不规范操作等引起的损坏。

Damage caused by failure to comply with the requirements of the instruction manual, incorrect use, overload, over-limit and irregular operation.

3. 不按要求对相关部件进行润滑脂加注、润滑导致部件的损坏。

Failure to grease and lubricate the relevant parts as required leads to the damage of the parts.

4. 使用不符合说明书规定的燃油、润滑油、润滑脂、冷却液引起的损坏。

Damage caused by the use of fuel oil, lubricating oil, grease and coolant not in accordance with the specification.

5. 用户自行拆、换原厂总成零部件或改动原车结构，如钢板弹簧加片、加厚；轮胎层级和尺寸加大；任意在车架上打孔、焊、改装；到徐工重卡服务站以外的单位拆检修理（包括自行拆修的），徐工重卡不再承担保修责任。

The user disassembles or replaces the original factory assembly parts or changes the original vehicle structure, such as leaf spring addition and thickening; Tyre grade and size increased; Arbitrary drilling, welding, modification on the frame; To the xugong heavy card service station outside the unit disassembly inspection repair (including self-disassembly repair), xugong heavy card no longer assume warranty responsibility.

6. 用户自行改动、拆装、更换部件导致保修期内部件的损坏。

The damage of the internal parts during the warranty period is caused by the user's modification, disassembly and replacement of the parts.

7. 车辆发生交通事故后，未经公安交通管理部门、保险公司等相关部门进行责任认定，自行处理的。

After the occurrence of a traffic accident, the vehicle is dealt with by itself without the liability identification of the public security traffic administrative department, the insurance company and other relevant departments.

8. 易损件不予保修。如灯泡、灯罩、各种滤芯、玻璃、一般的螺栓、螺母等。

Wearing parts are not guaranteed. If bulb, chimney, all sorts of filter element, glass, general bolt, nut.

9. 因自然环境影响，如：洪水、闪电、风暴、冰雹、地震等不可抗力造成的车辆损坏。

Due to the impact of natural environment, such as: flood, lightning, storm, hail, earthquake and other force majeure caused by vehicle damage.

10. 因使用环境影响，如：道路凹凸不平导致车辆与路面碰擦的车辆损坏。

Due to the use of environmental impact, such as: road uneven resulting in the collision of vehicles and road surface damage.

11. 因选购时未考虑后期使用情况，导致选购车型参数无法满足需求的不属于质保范围。如：长途运输选择高传动比车型。

Due to the failure to consider the late use when purchasing, the vehicle model parameters that cannot meet the requirements are not covered by the warranty. Such as: long-distance transport choice of high transmission ratio models

12. 车辆正常的振动、噪音、磨损等损耗情况。

Normal vibration, noise, wear and other losses of the vehicle.

13. 因超出徐工机械承受能力的环境条件（例如工业大气污染、化合物或其他腐蚀性物质）造成的损伤；

Damage caused by environmental conditions (such as industrial air pollution, chemical compounds or other corrosive substances) beyond the capacity of xugong machinery;

14. 产品使用中正常的损耗和磨损；

Normal wear and tear of products in use;

15. 其它非质量原因导致的损坏；

Damage caused by other non-quality reasons;

2. 保养 Maintenance

(一) 例行保养 (指每日出车前与收车后)

(I) Routine servicing (refer to the servicing conducted before the departure and knocking off)

例行保养以清洁及基本检查为重点, 内容如下:

Cleaning and basic inspection are the key points of the routine servicing with the contents stated as follows:

1. 检查油、水是否充足, 有无渗漏现象。

1. Inspect whether the oil and water are sufficient and whether there is the leakage.

2. 检查轮胎气压。

2. Inspect the tire pressure.

3. 发动机起动后, 听察运转是否正常。

3. After the engine is started, listen and observe whether the operation is normal.

4. 检查仪表、喇叭、信号指示及灯光等是否正常可靠。

4. Inspect whether the instrument, horn, signal indication and lamplight and so on are normal and reliable.

5. 检查离合器、制动器是否正常。

5. Inspect whether the clutch and brake are normal.

6. 检查转向器、垂臂与横、直拉杆是否灵活可靠, 液压油是否充足。

6. Inspect whether the steering gear, plumbing arm and horizontal & perpendicular pull rods are flexible and reliable and whether the hydraulic oil is sufficient.

7. 检查轮胎螺栓、螺母的紧固程度。

7. Inspect the fastening degree of the tire bolts and nuts.

8. 收车后要做好汽车的清洁工作, 尤其要擦拭发动机的外部积尘与油污, 冬季未用防冻液的汽车, 收车后应放尽冷却水。

8. After the knocking off, it needs to complete well the cleaning of the Truck. Particularly, it needs to wipe the external accumulated dust and oil dirt of the engine. In winter, for the Truck not adopting the anti-freezing solution, it is necessary to drain all the cooling water after the knocking off.

9. 贮气筒放水。

9 Drain the water in the air reservoir.

10. 检查轮胎有无伤裂, 剔除嵌入胎面的石块和杂物。

10. Inspect whether the tire has the injury or crack and eliminate the stone and debris embedding into the tread.

(二) 一级保养 (间隔里程 1500-2000km 或累计工作 50 小时)

(II) Level I servicing (interval mileage of 1,500-2,000km or 50 accumulated working hours)

1. 清洁

1. Cleaning

(1) 清洁汽车及各总成的外部。

(1) Clean the external of the Truck and all the assemblies.

(2) 清洁空气滤清器进气口和集尘袋，清洗机油粗、细滤清器、燃油滤清器及输油泵的滤网。

(2) Clean the air inlet and dust bag of the air filter and wash the filter screens of the primary & secondary filters, fuel oil filter and oil transfer pump.

(3) 清洁变速箱、后桥上的通气塞，并检查它们的油面，不足时添加。

(3) Clean the gear box and the breather plug on the rear axle and inspect their oil level. When the oil is insufficient, add the oil.

(4) 清洁蓄电池外部，检查并添加蒸馏水。

(4) Clean the accumulator external and inspect and add the distilled water.

2. 紧固

2. Fastening

(1) 检查前后钢板弹簧的 U 形螺栓和传动轴连接螺栓的紧固情况。

(1) Inspect the fastening conditions of the U-shaped bolts of front & rear plate springs and the connecting bolts of the transmission shaft.

(2) 检查电源线的联接有无松动和接触不良等情况。

(2) Inspect whether the connecting of the power line has the looseness, poor contact or other conditions.

(3) 检查车轮螺栓和半轴螺栓紧固情况。

(3) Inspect the fastening conditions of the wheel bolts and axle shaft bolts.

(4) 检查排气管与排气歧管接合处连接螺栓及排气管与消声器的紧固情况。

(4) Inspect the fastening conditions of the connecting bolts at the joint between the exhaust pipe and exhaust manifold as well as the exhaust pipe and silencer.

(5) 检查并紧固制动管路接头，消除漏气情况。

(5) Inspect and fasten the brake pipeline joint and eliminate the air leakage condition.

(6) 检查曲轴扭转减振器的滑转刻线记号。

(6) Inspect the wheelspin scribed line mark of the crankshaft torsion damper.

3. 调整检查发电机皮带的松紧度。

3. Adjust and inspect the tightness degree of the belt of the power generator.

4. 根据润滑表进行润滑。

4. Conduct the lubricating according to the lubricating table.

(三) 二级保养 (间隔里程 5000-6000km 或累计工作 150 小时)

(III) Level II servicing (interval mileage of 5,000-6,000km or 150 accumulated working hours)

1. 一级保养的全部项目

1. All the items of Level I servicing

2. 清洁

2. Cleaning

(1)清洗燃油泵滤网和燃油滤清器滤芯。

(1) Clean the filter screen of the fuel oil pump and the fuel oil filter element.

(2)清洁空气滤清器滤芯，每三次二保里程更换。

(2) Clean the air filter element and conduct the replacement for every three times of second servicing.

(3)清除机油离心式转子滤清器的转子内壁的脏污物，更换机油粗滤芯。

(3) Remove the dirt on the inner wall of the rotor of the centrifugal rotor filter for engine oil and replace the primary filter element for engine oil.

3. 紧固

3. Fastening

(1)检查车架各铆钉有无松脱，发动机前后悬置与支架连接螺栓、驾驶室的悬置螺栓有无松动并及时拧紧。

(1) Inspect whether all of the frame rivets are loose and whether the connecting bolts between the front & rear suspension devices and the holder as well as the bolts of the suspension device in the cab are loose and conduct timely the tightening.

(2)检查悬挂夹紧螺栓的夹紧情况并消除间隙。

(2) Inspect the clamping conditions of the clamping bolts of the suspension device and eliminate the clearance.

(3)检查并紧固驾驶室各部位的连接螺栓。

(3) Inspect and fasten the connecting bolts of all the parts in the cab.

(4)检查转向机构各部位的连接螺栓。

(4) Inspect the connecting bolts of all the parts of the steering gear.

(5)检查驾驶室举升装置及倾翻止动器的紧固情况。

(5) Inspect the fastening conditions of the lifting device and tipping stop dog in the cab.

(6)检查传动轴十字轴轴承及中间支承有无松旷现象，检查各叉形突缘螺母的紧固情况。

(6) Inspect whether the bearings of universal joints of the transmission shaft and the intermediate support are loose; inspect the fastening conditions of all the X-type flange nuts.

4. 调整

4. Adjustment

(1)检查并调整离合器踏板自由行程。

(1) Inspect and adjust the free travel of the clutch pedal.

(2) 检查并调整前束。

(2) Inspect and adjust the toe-in.

(3) 检查并调整驻车制动装置的工作情况。

(3) Inspect and adjust the working conditions of the parking braking device.

(4) 检查方向盘游动量，必要时调整。

(4) Inspect the free movement of the steering wheel and conduct the adjustment when necessary.

(5) 检查制动气室推杆行程，必要时调整。

(5) Inspect the pushrod travel of the brake chamber and conduct the adjustment when necessary.

5. 润滑

5. Lubrication

(1) 检查、更换或添加发动机、变速箱和后桥的润滑油。

(1) Inspect, replace or add the lubricating oil of the engine, gearbox and rear axle.

(2) 检查并添加转向系统液压油。

(2) Inspect and add the hydraulic oil of the steering system.

(3) 拆检车轮制动器，清洗、润滑并调整轮毂轴承，润滑制动蹄支承销，调整制动摩擦片与制动鼓之间的间隙，进行轮胎换位。

(3) Overhaul the wheel brake; clean, lubricate and adjust the hub bearing; lubricate the support pin of the brake; adjust the clearance between the brake shoe friction block and brake drum; conduct the tire rotation.

(4) 润滑保养起动机。

(4) Lubricate and service the starter.

(5) 按润滑表进行润滑。

(5) Conduct the lubricating according to the lubricating table.

6. 其他

6 Others

(1) 检查蓄电池电解液密度，必要时充电。

(1) Inspect the electrolyte density of the accumulator and conduct the charging when necessary.

(2) 检查减振器性能，三次二级保养里程时应拆检、清洗和换油。

(2) Inspect the damper performance. It is necessary to conduct the overhaul, washing and oil replacing for every three times of Level II servicing mileage.

(四) 三级保养（间隔里程 30000-40000km 或累计工作 1000-1500 小时）

(IV) Level III servicing (interval mileage of 30,000-40,000km and 1,000-1,500 accumulated working hours)

1. 一级保养和二级保养全部项目。
1. Conduct all the items of Level I servicing and Level II servicing.
2. 拆检发动机总成，清洗、修磨、更换、调整、装复。
2. Overhaul the engine assembly and conduct the washing, coping, replacement, adjustment and reinstallation.
3. 拆检车桥，进行调整并换油。
3. Overhaul the axle, conduct the adjustment and replace the oil.
4. 检查并调整转向器、变速箱并清洗换油。
4. Inspect and adjust the steering gear and gearbox and conduct the washing and oil replacement.
5. 检查双腔制动阀、继动阀、手控阀、弹簧制动气室、空气干燥器和备胎升降器。
5. Inspect the dual-cavity brake valve, relay valve, manual valve, spring brake chamber, air dryer and spare tire lifter.
6. 拆检转向节和横直拉杆。
6. Overhaul the steering knuckle and horizontal & perpendicular pull rods.
7. 检查车架各铆接处及悬挂零件的连接是否牢固，检查并润滑悬挂装置。
7. Inspect whether all the riveting positions of the frame and the suspension parts are connected securely; inspect and lubricate the suspension gear.
8. 拆检传动轴各十字轴，清洗并润滑转向传动轴十字轴。
8. Overhaul the all the universal joints of the transmission shaft; clean and lubricate the universal joints of the steering transmission shaft.
9. 检查曲轴箱通风装置。
9. Inspect the ventilation device of the crank case.
10. 清洗贮气筒、四回路保护阀。
10. Wash the air reservoir and four-circuit protective valve.
11. 清洗并检查制动气室皮膜。
11. Clean and inspect the brake chamber leather film.
12. 拆检、清洗离合器操纵液压系统，并换油。
12. Overhaul and wash the operating hydraulic system of the clutch and replace the oil.

(五) 润滑

(V) Lubrication

润滑是影响汽车各部分工作性能和使用寿命的极为重要的因素之一。汽车在使用过程中应结合保养，对指定的部位，按规定的润滑周期进行润滑作业。在加注润滑剂前，应将润滑部位清洗干净，避免脏物和灰尘混入。

Lubrication is one extremely important factor that influences the working performance and service life

of each party of the Truck. During the use of the Truck, it is necessary to lubricate the designated parts according to specified lubrication periods by combining the servicing. Before the lubricant filling, it is necessary to clean up the lubrication part so as to prevent the mixing of the dirt and dust.

润滑部位、点数及润滑剂见附表 1。

For the lubrication parts, point number and lubricant, refer to Schedule 1.

3. 特别注意事项 Special notes

根据驾驶的情况，仪表盘上会有不同颜色的指示灯亮起。指示灯分为红色、黄色、绿色和蓝色，四种颜色代表以下含义：

Depending on the driving situation, there will be different colors of indicator lights on the dashboard. The indicator lights are divided into red, yellow, green and blue. The four colors represent the following meanings

红色指示灯：一般为驾驶警告指示灯，对驾驶时出现的严重故障起到警告的作用。发生致命或重大人身伤害事故以及车辆严重损坏或其它重大财产损失的危险。立即停车并采取适当的应对措施。

The red light is usually the driver's warning light, which serves as a warning for serious faults while driving. In the event of a fatal or serious personal injury accident, serious damage to the vehicle or other serious property loss, stop immediately and take appropriate measures.

黄色指示灯：一般为驾驶警示指示灯，对驾驶时出现的一般故障起到警示的作用。长期不处理可能发生严重故障，会对车辆造成损坏。应尽快纠正故障。其它措施：特别注意已启用的功能是否正常工作。

The yellow indicator is generally the driving warning indicator, which serves as a warning for general faults occurring during driving. Serious faults may occur if not handled for a long time, which may cause damage to the vehicle. Other measures should be taken to correct the faults as soon as possible.

绿色指示灯：为一般的驾驶指示灯。来自正常操作的功能的信息。

The green indicator is the general driving indicator information from the function of normal operation



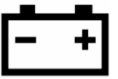


蓝色指示灯：介于黄色警示和绿色显示灯之间，提醒驾驶员关注指示信号。主要为远光信号指示灯和尿素液位低指示灯。

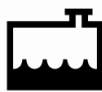




The blue indicator light is between the yellow warning light and the green display light. The indicators to remind the driver to pay attention to are mainly the far-light signal indicator light and the low urea level indicator light

组合仪表上报警指示灯和报警符号说明








Description of alarm indicator and alarm symbol on instrument cluster







序号 /No.	描述 /Description	符号/Symbol	颜色 /Color	释义及处理方法 /Meanings and handling methods
1	STOP 立即停止警告灯	STOP	Red 红色	Mandatory stop alarm signal, the engine must stop running when the light up, check if the water temperature, oil pressure, air pressure, engine, gearbox cab, etc are proper functioning. 强制停车报警信号，亮起时发动机必须停止运行。检查水温，机油压力，气压，发动机，变速箱，驾驶室等是否正常
2	ENGINE OVERSPEED 发动机超速		Red 红色	If the speed exceeds the alarm signal light up, measures should be taken immediately to reduce the engine speed. 转速超过配置的告警信号，应立即采取措施降低发动机转速
3	TRANS PROGRAM 变速箱故障指示灯		Red 红色	Serious fault in the gearbox, which needs to be stopped immediately for maintenance. 变速箱内部出现严重故障，需立即停车维修
4	TRANSMISSION OIL TEMPERATURE WARNING 变速箱油温报警		Red 红色	The transmission oil temperature alarm signal, should immediately stop to check the transmission oil volume oil cleanliness oil temperature sensor and other components. 变速箱油温报警信号，应立即停车检查变速箱油量、油清洁度、油温传感器等部件
5	ENGINE OIL PRESS 机油压力低指示灯		Red 红色	If it is always on after starting, please stop immediately to check the oil pressure switch oil cleanliness engine lubrication system and other components. ON 档时，起动前点亮，起动后熄灭；若起动后一直点亮，请立即停车检查机油压力开关、机油清洁度、发动机润滑系统等部件

6	SUCTION FILTER CLOGGED INDICATION 吸油滤清器堵塞指示		Red 红色	If it is always on after starting, please stop immediately to check the oil pressure switch oil cleanliness engine lubrication system and other components. ON 档时，起动前点亮，起动后熄灭；若起动后一直点亮，请立即停车检查机油压力开关、机油清洁度、发动机润滑系统等部件
7	PIPING FILTER CLOGGED INDICATION 管路滤清器堵塞指示		Red 红色	If it is always on after starting, please stop immediately to check the oil pressure switch oil cleanliness engine lubrication system and other components. ON 档时，起动前点亮，起动后熄灭；若起动后一直点亮，请立即停车检查机油压力开关、机油清洁度、发动机润滑系统等部件
8	BATTERY WARNING 充电指示灯		Red 红色	The discharge signal of the battery is lit up before starting and extinguished after starting. Check whether the generator generates electricity and whether the charging circuit is broken if it is always on after starting. 蓄电池放电信号，起动前点亮，启动后熄灭；若起动后一直亮需检查发电机是否发电，充电回路是否断路等
9	LOW AIR PRESSURE INDICATOR 气压过低指示灯		Red 红色	Under normal pressure, the light will not be on. When the air pressure in the storage tank drops to the prescribed limit ($\leq 560\text{kPa}$), the light will be on. (start the vehicle in place and let the engine run for a while.) 在正常气压下，该灯不亮，当贮气筒中的空气压力下降到规定限度 ($\leq 560\text{kPa}$) 时，该灯亮。 (原地启动车辆，让发动机运行一段时间即可)
10	DOOR OPEN 门未关指示灯		Red 红色	The door is not closed, close the door immediately. 门未关指示信号，应立即停车关闭好车门

11	COOLANT LEVEL 液位低		Red 红色	Cooling liquid level low signal, should immediately stop to check the cooling liquid level, whether there are leakage points, and check liquid level sensor and other components 冷却液位低信号，应立即停车检查冷却液位,是否有泄漏点，液位传感器等部件
12	TEMPERATURE WARNING 水温过高报警		告警： 红色 否则： 白色	Excessive water temperature alarm signal,should be stopped immediately to check whether the cooling water is sufficient, whether the fan works normally, whether the water circulation of the pump and the thermostat works normally. 水温过高报警信号，应立即停车检查冷却水是否充足，风扇工作是否正常，水泵、节温器等水循环是否正常工作
13	BREAK PAD WARNING 刹车片磨损指示灯		Red 红色	Brake pads wear out to the limit,remind the driver to replace the brake pad immediately. 刹车片磨损快到极限，提醒驾驶员立即更换刹车片
14	PARKING BRAKE LIGHT 驻车制动指示灯		Red 红色	Vehicle parking signal,parking brake should be lifted and Only when the air pressure is greater than 6 Bar can the vehicle run normally. 车辆驻车指示信号，应解除驻车制动且气压大于6Bar 后才能正常行驶
15	STEERINGFLUID LEVEL 转向油位告警		Red 红色	Signal that steering oil level is too low,stop immediately to check direction oil tank,Check for leaks and replenish oil;Otherwise, it will cause heavy steering,steering system faults such as damaged steering gear and steering booster pump. 转向油位过低信号，立即停车检查方向机油罐，检查有无泄漏并补充油液；否则会造成转向沉重，转向器和转向助力泵损坏等转向系统故障

16	ALARM FOR UNEVEN ROAD SURFACE 路面不平整报警		Red 红色	The alarm signal of road surface irregularity reminds drivers to drive cautiously, to find a smooth road as far as possible, and to prevent rollover accidents. 路面不平整报警信号，提醒驾驶员谨慎行驶，尽可能找到平整路面行驶，防止翻车事故
17	OBD PARTICLE CATCHER COMBUSTION REQUEST LAMP OBD 颗粒扑捉器燃 烧请求灯		Red 红色	The blocking signal of the exhaust trap, i.e. the signal of excessive exhaust emission, is to avoid idling, short-distance driving and frequent extinguishing as far as possible. Regular fuel must be added so that the trap can be regenerated. 排放捕捉器堵塞信号，也就是尾气排放超标信号，尽量避免空挡怠速、短途行驶、频繁熄火，一定加正规油品，让捕捉器再生
18	ANTI THEFT INDICATOR 防盗指示灯		Red 红色	Failure indication signal of anti-theft system, check anti-theft system as soon as possible, so as to avoid vehicle being unable to drive because of anti-theft system failure. 防盗系统故障指示信号，尽快检查防盗系统，避免因防盗系统故障造成车辆无法行驶
19	AIR BAG 安全气囊故障指示灯		Red 红色	Safety airbag fault indication signal: check airbag control system at service station as soon as possible to prevent the failure of safety protection function 安全气囊故障指示信号：尽快到服务站检查气囊控制系统，防止安全保护功能失效
20	AIR BAG NOT IN POSITION 气囊悬架未在驾驶位 置警告灯		Red 红色	Airbag suspension not in driving position warning signal, the vehicle should be prohibited from driving. Check the air pressure of the air storage tank and the inflatable system of the airbag suspension. 气囊悬架未在驾驶位置警告信号，车辆应禁止行驶，检查储气筒气压及气囊悬架充气系统



21	LOW LNG 气量正常指示 气量不足告警		Red 红色	LNG is about to run out of indication signal. It should be added to the inflatable station immediately. LNG 即将耗尽指示信号，应立即到充气站加 LNG
22	WARNING LIGHT OF CAB UNLOCKED 驾驶室未锁死报警灯		Red 红色	Cab unlocked alarm signal, stop immediately to check whether the locking mechanism is loose. 驾驶室未锁死报警信号，应马上停车检查驾驶室锁止机构是否松脱
23	SEAT BELT NOT ON 安全带未系指示灯		Red 红色	Seatbelt not wearing indication signal, Fasten seat belt immediately. 安全带未系指示信号，应立即系安全带
24	MINE CARD: HYDROPNEUMATIC SUSPENSION ALARM 矿卡：油气悬架告警		Red 红色	The fault indication signal of the hydro-pneumatic suspension system occurs. Hydro-pneumatic suspension control system should be inspected immediately. 油气悬架系统出现故障指示信号，应立即检查油气悬架控制系统
25	MINE CARD: CARGO LIFTING ALARM 矿卡：货箱举升报警		Red 红色	Alarm signal for container lifting, prohibition of driving during container lifting and other operations. 货箱举升报警信号，货箱举升时禁止行驶等其他操作
26	EXHAUST BRAKE INDICATOR 排气制动指示灯		Yellow 黄色	When the exhaust brake is working, the instruction reminds the driver to shut down in time when the exhaust brake is not needed, so as to avoid the loss of engine power. 排气制动工作时指示，提醒驾驶员当不需要排气制动时，及时关闭，以免发动机功率损失
27	ABS WARNING 主车 ABS 告警灯		Yellow 黄色	The ABS system of the main car has a general malfunction, it can continue to drive for a period of time to the maintenance plant for inspection. 主车 ABS 系统发生一般故障，可继续行驶一段时间开到维修厂检修









28	TRAILER ABS WARNING LIGHT 挂车 ABS 告警灯		Yellow 黄色	The ABS system of the trailer has a general malfunction,it can continue to drive for a period of time to the maintenance plant for inspection 挂车 ABS 系统发生一般故障，可继续行驶一段时间开到维修厂检修
29	ASR DRIVE ANTI SLIP ALARM LAMP ASR 驱动防侧滑 报警灯		Yellow 黄色	The ASR system fails in general, it can continue to drive for a period of time and go to the maintenance plant for overhaul. ASR 系统发生一般故障，可继续行驶一段时间开到维修厂检修
30	ENGINE BRAKE INDICATION 发动机制动指示		Yellow 黄色	Working Indicator Signal of Engine Brake System, Remind Driver to Remove Immediately when Engine Brake is not Needed 发动机制动系统工作指示信号，提醒驾驶员当不需要发动机制动时立即解除
31	ENGINE WARNING 发动机故障指示灯		Yellow 黄色	Extinguish after self-checking 3S,Indicator lights up when engine fails,should drive to service station for repair as soon as possible. 自检 3S 后熄灭，发动机工作出现故障时指示灯点亮，应尽快开到服务站检修
32	FAULT DETECTION INDICATOR 故障检测指示灯		Yellow 黄色	This lamp is used when the vehicle breaks down,the flashing code value is given by the method of flashing code, and the fault direction is found according to the flashing code value. 此灯为车辆出故障时，用灯光闪码的方法给出闪码值，根据闪码值找出故障方向
33	FOG LIGHT(REAR) 后雾灯指示灯		Yellow 黄色	Rear fog light indication signal,remind the driver to turn off the rear fog lamp in time when there is no fog and the sight is good.Prevent the rear fog lamp from interfering with or injuring the eyes of the people behind it, and even causing traffic accidents. 后雾灯指示信号，提醒驾驶员在没有雾,视线较好时，及时关闭后雾灯；防止后雾灯对后面人员眼睛造成干扰或伤害，甚至造成车祸

34	LOE FUEL 油量正常指示 油量不足告警		告警： 黄色 否则： 白色	Fuel is about to run out of indicator lights. Check the amount of fuel in the fuel tank and replenish the fuel as soon as possible. 燃油即将耗尽指示灯，检查燃油箱中油量，尽快补充燃油
35	FRONT AXLE CLUTCH WORKING INSTRUCTION 前桥离合工作指示		Yellow 黄色	Front axle drive working indicator, When the road is in good condition, the front axle drive should be closed in time to avoid damage to the vehicle caused by long-term full drive. 前桥驱动工作指示灯，当路况好时需及时关闭前桥驱动，避免长时间全驱对车辆造成损坏
36	AUTOMATIC HEADLIGHT ADJUSTMENT SYSTEM WARNING LAMP 前照灯自动调整系统 警告灯		Yellow 黄色	When the light is on, it shows that the headlamp beam height automatic adjustment system is malfunctioning. Although it can still drive, it may affect the sight if it encounters a section with poor lighting, and it is better to deal with it as soon as possible. 当灯亮的时候说明前照灯光束高度自动调节系统有故障，虽然依旧可以行驶，但如果遇到照明不好的路段就可能会影响视线，还是尽早处理的好。
37	ADAPTIVE HEADLAMP SYSTEM OFF LIGHTS 自适应前照灯系统关 闭灯	AFS OFF	Yellow 黄色	Adaptive headlamp system fault signal, check headlamp control module, headlamp height control valve and other components 自适应前照灯系统故障信号，检查大灯控制模块、大灯高度控制阀等部件
38	FCWS 防追尾雷达电子系统 指示灯		Yellow 黄色	Fault Signal of Electronic System of Anti-rear-end Radar, Check Radar and Module 防追尾雷达电子系统故障信号，检查雷达和模块

39	ESC ALARM: EBS FAILURE INDICATION ESC 告警: 电子车身稳定系统失效指示灯		Yellow 黄色	Failure Indicating Signal of Electronic Body Stability System, Check the Failure of Electronic Body Stability System 电子车身稳定系统出现故障指示信号, 检查电子车身稳定系统故障
40	HYDRO PNEUMATIC SUSPENSION OPERATION INDICATION 油气悬架运行指示		Yellow 黄色	Operational Indicating Signal of Hydro-pneumatic Suspension, no action required. 油气悬架运行指示信号, 不需处理
41	AIR PREHEATING INDICATOR 空气预热指示灯		Yellow 黄色	When the ambient temperature is higher than the set value, the self-checking lights up and extinguishes. When the ambient temperature is lower than the set value, it will be on during preheating operation and off after preheating. 环境温度高于设定值时自检点亮后熄灭; 环境温度低于设定值时, 预热工作时点亮, 预热结束后熄灭
42	FUEL PREHEATING INDICATOR 燃油预热指示灯		Yellow 黄色	When the ambient temperature is higher than the set value, the self-checking lights up and extinguishes. When the ambient temperature is lower than the set value, it will be on during preheating operation and off after preheating. 环境温度高于设定值时自检点亮后熄灭; 环境温度低于设定值时, 预热工作时点亮, 预热结束后熄灭
43	INTER WHEEL DIFFERENTIAL INDICATOR LIGHT 轮间差速器指示灯		Yellow 黄色	Interwheel differential lock open indicator signal, Close differential lock switch in time when leaving muddy road. 轮间差速器锁打开指示信号, 离开泥泞路面时, 及时关闭差速锁开关

44	INTER AXLE DIFFERENTIAL INDICATOR 轴间差速器指示灯		Yellow 黄色	Interaxle Differential Lock Open Indicating Signal, Close differential lock switch in time when leaving muddy road. 轴间差速器锁打开指示信号，离开泥泞路面时，及时关闭差速锁开关
45	TYRE PRESSURE LOW 胎压指示灯		Yellow 黄色	When the tire pressure system is on-line, the tire pressure should be checked as soon as possible according to the TPMS alarm information, and the tire pressure should be reasonably filled and deflated. 胎压系统在线的情况下，根据 TPMS 告警信息点亮，应尽快检查轮胎气压，进行合理充放气
46	AIR FILTER BLOCKAGE WARNING LAMP 空滤堵塞报警灯		Yellow 黄色	Air filter clogging alarm signal, timely check the filter element of air filter, clean and replace the filter element if necessary 空滤堵塞报警指示信号，及时检查空气滤清器滤芯，清洁吹净必要时更换滤芯
47	POWER TAKE-OFF 取力器		Yellow 黄色	The working indication signal of the power take-off device reminds the driver to turn off the power take-off switch in time when not in use. 取力器工作指示信号，提醒驾驶员取力器在工作，不用时及时关闭取力器开关
48	THREE BRIDGE (REAR BRIDGE) LIFTING INDICATION 三桥（后桥）升降指示		Yellow 黄色	Lifting Bridge Indicating Signal, Remind Drivers to Pay Attention to Lifting Bridge State. 提升桥升降指示信号，提醒驾驶员注意提升桥状态
49	WATER IN FUEL FILTER 油水分离器指示灯		Yellow 黄色	Water Indicating Signal in Oil-Water Separator, Remove Water in Oil-Water Separator in Time 油水分离器中有水指示信号，及时排除油水分离器中的水分

50	TCS TCS 指示灯		Yellow 黄色	The indicator lamp is used to display the working state of the TCS (traction control system) of the vehicle,When the indicator light is on, the TCS system is turned off,Check if the switch is off or TCS system fails 该指示灯是用来显示车辆 TCS(牵引力控制系统)的工作状态。当该指示灯点亮时,说明 TCS 系统已被关闭。检查开关是否关闭或 TCS 系统故障
51	MAIN BEAM HEADLIGHTS 远光指示灯		Blue 蓝色	Far Light Indicator Signal,Switch to near light when meeting a car or working in a city. 远光指示信号, 会车时或城市工况时应切换到近光
52	LOW UREA LEVEL 尿素液位低显示		Blue 蓝色	When the residual amount of urea solution is insufficient, the light will turn on.Add urea solution in time. (limit torque and reduce speed, do not affect driving, add urea liquid in time) 尿素溶液剩余量不足时该灯亮,及时添加尿素溶液。(限扭降速, 不影响行驶, 及时添加尿素液)
53	DIRECTION INDICATORS 主车左转向		Green 绿色	Left turn signal, no need to process. 左转向信号, 无需处理
54	DIRECTION INDICATORS OF TRAILER 挂车左转向		Green 绿色	
55	DIPPED BEAM HEADLIGHTS 近光指示灯		Green 绿色	Near Light Indicating Signal,No need to deal with. 近光指示信号, 无需处理
56	FOG LIGHT(FRONT) 前雾灯指示灯		Green 绿色	Front fog light indication signal,No need to deal with. 前雾灯指示信号, 无需处理

57	挂车右转向		Green 绿色	Right turn signal, no need to process. 右转向信号，无需处理
58	DIRECTION INDICATORS 主车右转向		Green 绿色	
59	FOOT BRAKE INDICATION 脚刹指示 (制动指示)		Green 绿色	Foot brake indicator light, no need to process. 脚刹指示信号灯，无需处理
60	AUTO WINDSCREEN WIPING ESC 工作指示： 电子车身稳定系统工作指示灯		Green 绿色	Electronic body stabilization system work indication signal, no need to process. 电子车身稳定系统工作指示信号，无需处理
61	RETARDER 缓速器		绿色/ 黄色闪烁	Green (job instructions) Yellow scintillation (alarm with general malfunction) Off road vehicle: Work Instructions, Green Display retarder gear 绿色（工作指示） 黄色闪烁（告警有一般故障） 矿卡：工作指示，绿色 显示缓速器档位
62	CRUISE CONTROL ON 巡航指示灯		Green 绿色	Cruise work indication signal, no need to process. 巡航工作指示信号，不需处理
63	PARTICLE CATCHER IS CLEARING 颗粒扑捉器正在清理 灯工作指示		Green 绿色	The particle catcher is clearing, and it will regenerate after clearing, so it does not need to be processed. 颗粒扑捉器正在清理信号，清理后会再生，不需处理
64	空气干燥器加热指示 灯		Green 绿色	Air dryer heating indicator signal, no need to process. 空气干燥器加热指示信号，不需处理

65	FIFTH-WHEEL COUPLING LOCKED/SECURE 牵引座连接指示		Green 绿色	The first hook up is effective, and the indicator light will be on for 10 seconds and then off. It is off all the time to remind the driver of the connection status of the traction seat. 首次挂接有效，指示灯持续点亮 10 秒后熄灭。之后一直熄灭，为提醒驾驶员牵引座连接状态
66	HIGH GEAR 高档		Green 绿色	High gear indicator signal, no need to process 高档指示信号，不需处理
67	LOW GEAR 低档		Green 绿色	Low gear indicator signal, no need to process 低档指示信号，不需处理
68	NEUTRAL GEAR 空档	N	Green 绿色	Neutral gear indicator signal, no need to process 空档指示信号，不需处理
69	REVERSE GEAR 倒档	R	Green 绿色	Reverse gear indicator signal, no need to process 倒档指示信号，不需处理
70	FORWARD GEAR 前进档	D	Green 绿色	Forward gear indicator signal, no need to process 前进档指示信号，不需处理
71	BRAKE AIR PRESSURE CIRCUIT 1 制动气压回路 1		Green 绿色	The indication signal of the first circuit of brake air pressure, no need to process 制动气压第一回路指示信号，不需处理
72	BRAKE AIR PRESSURE CIRCUIT 2 制动气压回路 2		Green 绿色	The indication signal of the second circuit of brake air pressure, no need to process 制动气压第二回路指示信号，不需处理