



Competitor Product Guide
SDLG LG936L VS Liugong CLG836 VS XCMG LW300F

Monday, March 02, 2015

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Machine Specifications

Machine Specifications

Item		LG936L		LW300F	CLG836
Engine	Model	Weichai Deutz WP6G125E22	DDE BF6M2012(T3)	YC6B125-T21	TD226B-6
	Rated power(kw)	92	97	92	92
	Fuel consumption(g/kwh)	≤225	≤240	210	208
	Max. torque(Nm)	550	560	560	
	Displacement(ml)	6750	6060	6870	6750
	Emission	Tire/Stage II	Stage III	Tire/Stage II	Stage II
	Low idling speed(rpm)	750±50	750-800	2100	750±50
	Max engine speed(rpm)	2200	2200	2300	2300
Rated Load(t)		3	3	3	3
Max. breakout force(KN)		96	96	≥120	98
Max. tractive force(KN)				≥90	100
Operating weight(kg)		≥10900	10900	10t	10500
Rated bucket capacity(m³)		1.8	1.8	1.8	1.7
Steering relief pressure(Mpa)					
Load cycle time(s)		9.2	9.2	10.3	9
Dimension parameter(mm)		7230×2520×3170	7230x2520x3170	6900×2482×3025	6780x2300x3297
Min. turning radius(mm)		6020	6020	6060	5674
Max. steering angle(°)					40
Dumping height(mm)		2950	2950	2930	2916
Tipping load(kg)					



General impression



RELIABILITY IN ACTION

General Impression

SDLG LG936L



XCMG LW300F



Liugong CLG836

LG936L

- ❑ DDE electrically-controlled engine meeting the requirement of Tier 3 standard, high output torque, good fuel economy and better performance. Weichai Deutz engine conform to tier 2 is optional .
- ❑ Articulated reinforced frame structure adopts tapered roller bearing for high reliability and flexible steering. Good performance and long lifetime.
- ❑ Pilot-controlled joystick operating system, load-sensing full hydraulic steering system, portable and flexible operation.
- ❑ New Cab designed according to ergonomics, sealing performance is good, safer and more comfortable.
- ❑ New high performance cooling/heating A/C equipped circulating air filtration system, comfortable and pleasant inside the cab.
- ❑ Digital step-type instrument panel, high man-machine interaction. Electric control system with centralized layout, friendly to maintenance and repair.
- ❑ High capacity filter and good filter access, secure engine life and easy to change .

CLG836

- ❑ Weichai engine , conform to tier 2, low fuel consumption and emission.
- ❑ Axle designed by Liugong , Hangchi planetary dynamic shift gearbox **BS305**, can protect machine when the brake system pressure is low.
- ❑ Strong structure and working device.
- ❑ Large space low noise cab .
- ❑ Advanced hydraulic system, double pump confluence , low heat, energy saving.
- ❑ Axles are connected to frame by auxiliary frame.

LW300F

- ❑ Adapt YC6B125-T21 engine, conform to tier 2, pressure and temperature are measured by by sensor。
- ❑ Fixed shaft dynamic shift gearbox and single-stage single-phase with four elements torque converter BS428(F4R2).
- ❑ Adapts single pump and load sensing, boom cylinder diameter increased to 125mm from 110mm, pressure can be measured friendly.
- ❑ New bucket with low shovelling resistance.
- ❑ Articulated frame structure adopts knuckle bearing , and rear frame adopts single plate structure.
- ❑ Axles are connected to frame by auxiliary frame
- ❑ Air over oil disc caliper four wheel brake system.

LW300F Main Configuration

No.	Item	Type	Brand
1	engine	YCB125-T21	Yuchai engine
2	gearbox	BS428	Hangchi
3	axle	300F	Xuzhou Jinggong
4	pump	CBGJ3125	Jinan hydraulic pump Co.
5	valve	DF25B2	Zhejiang Linhai Haihong hydraulic component Co.



SDLG Engine Contrast

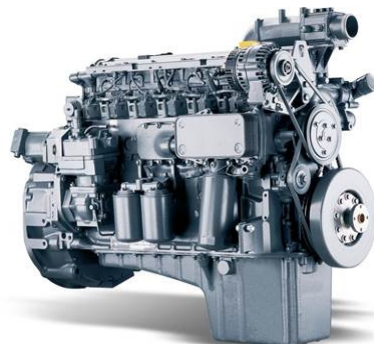
LG936L——Weichai Deutz



Low noise ,low fuel consumption, high durability, rare malfunction:

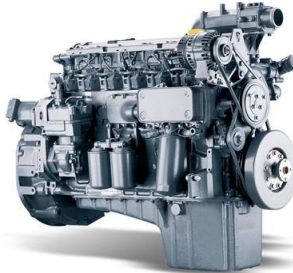
- Modular design, compact structure, high commonality, easy to maintain
- Low exhaust emission pollution meeting the stringent emission regulations of Europe/North America
- Precisely manufacture with reliable material ,main parts perform reliable
- Performance is stable and reliable, trouble-free intervals is up to 6500 hours
- Excellent durability, overhaul period is up to 20000 hours
- Monomer type cylinder head with small size, good cast, strong interchangeability
- Each system configuration and parts designed with enough security and reliability coefficient
- Commonality , standardization and serial parts make it easy to batch and the cost is low

LG936L—— DDE



- ◆ Meticulous application and most oil-saving place of engine always meets common working condition of complete vehicle
- ◆ Strengthen and injecting pressure of unit pump structure is twice as high as mechanical pump; power take-off is efficient and fuel economy is better
- ◆ Modular design, less complete vehicle parts, CAN line timely control of engine status and higher reliability
- ◆ Apply international advanced 7 –level design and manufacturing precision, inbuilt unit pump structure, single row gear train, crankcase high-mounted forced ring-cooling technique and echelon pre-heating technique; lifespan of engine can achieve 800000 kilometers.
- ◆ Unit pump is put inside the crankcase so that crankcase strengthen is high, not easy to break, unit pump is not easy to be damaged and high pressure oil pipe doesn't break
- ◆ Many severe environment such as high-temperature, cold, highland, high-humidity and dusty wind are considered at the beginning of design and it can easily work under severe working condition.
- ◆ Unique unit pump oil supply system and has few requirements for fuel quality so that it can guarantee reliability while adapting different oil quality in different areas.
- ◆ Low noise with 1decibel lower than same product and can achieve standard without any supplementary methods.
- ◆ Provide international standard service based on DEUTZ and Volvo global service platform
- ◆ Apply one pump per cylinder structure so that unit pump can be changed independently when there is failure. Low maintenance cost and damage of one unit pump will not affect working in short time.
- ◆ All maintaining points are on one side leading to short –time maintenance and low maintenance cost

LG936L——WP6G125E22 & BF6M2012(T3)

Item	Engine	
Photo		
Brand	Weichai Deutz	DDE
Model	WP6G125E22	BF6M2012(T3)
Type	Inline, water-cooled, four-stroke , direct injection	Inline, water-cooled, four-stroke , direct injection
Rated power (kW)	92	97
Displacement (ml)	6750	6060
Intake system	Turbo Charger	Turbo Charger
Compression ratio	18:1	18.4:1
Idle speed(r/min)	750±50	750-800
Emission	Tier II	Tier III
Fuel type	Diesel	Diesel
Rated speed(r/min)	2200	2200
Rated fuel consumption(g/kW•h)	≤225	≤240
Number of cylinders	6	6
Cylinder diameter/stroke(mm)	105/130	101/126
Maximum torque(N•m)	550	560
Net weight(kg)	750(Include accessory)	580 (Include accessory)

CLG836——Weichai Deutz TD226B-6



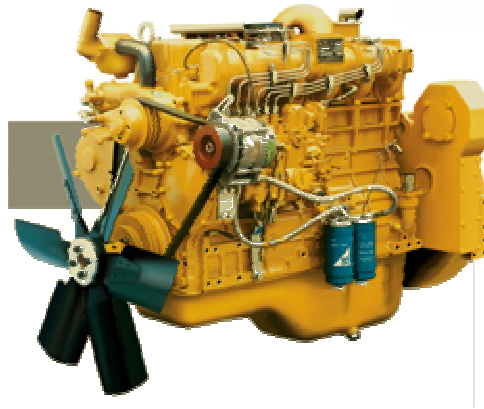
- ◆ Designed by Deutz, manufactured under the German quality standard.
- ◆ Large compression ratio, high combustion efficiency, low fuel combustion, low emission, conform to Stage 2.
- ◆ Reverse torque is large, maximum torque $\geq 500\text{N.m}$, can meet request of kinds of working conditions.

CLG836——Weichai Deutz TD226B-6



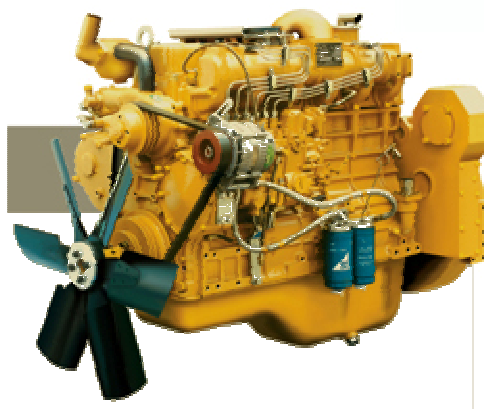
Model	TD226B-6
Type	Inline, water-cooled, four-stroke , direct injection
Intake system	turbo charger
Cylinder number- diameter×stroke(mm)	6-105×120
Displacement(L)	6. 75
Idle speed	750±50 r/min
Rated power/speed kW/r/min	155/2300
Min fuel consumption g/kW·h	≤210
Emission	Stage 2

YC6B125-T21



- Fuel injector with smaller hole, combustion is more , improve the torque at low speed.
- Adapt prevent—oil starter, quick to start and high reliability。
- Adapt large flow 、 PU structure air filter, safe to use and convenient to maintain.
- Can be updated to conform to tier 3 emission standard.

YC6B125-T21



Model	YC6B			
Type	Inline, water-cooled, four-stroke , direct injection			
Cylinder number-diameter×stroke(mm)	6-108×125			
Displacement(L)	6. 871			
Compression ratio	17.5: 1			
Intake system	NA		turbo charger	
Rated power/speed kW/r/min	85/2000	92/2200	102/2000	110/2100
Max torque/speed N·m/r/min	450/1400~1600	463/1400~1600	560/1400~1600	
Min fuel consumption g/kW·h	≤215		≤210	
Emission	Stage 1		Stage 2	

The information of CLG836 and LW300F below comes from machines sold more than 1 year before, we are not sure they were updated/changed or not.

The background of the slide is a photograph of a yellow excavator. Overlaid on the left side of the excavator is a large, semi-transparent SDLG logo. The logo consists of a stylized triangle with a grey left side, a red right side, and a black top section, with the letters 'SDLG' in a bold, black, sans-serif font below it. In the center of the slide, the text 'Maintenance Contrast' is written in a bold, black, sans-serif font.

SDLG

Maintenance Contrast

LG936L



- ◆ Easy to replace and repair the brake model.
- ◆ Also there is a cover to protect the caliper from mud and water.

CLG836



Brake disc and caliper is surround by tyre, and the tyre must be removed when replace the calipers.

LW300F

Need improved image

LG936L



- ◆ Battery box can be opened and closed quickly and convenient .
- ◆ With a switch for whole vehicle circuit.

CLG836



- ◆ Battery box cap is fasten by bolts, which is not convenient to open and check.
- ◆ Easy to rust.

LW300F



- ◆ Battery box can be opened and closed quickly and convenient .

LG936L



- ◆ Two fuel level monitoring holes ensuring knowing about oil level and avoid oil spilling.
- ◆ Fuel tank cap can be hold well with protruding part when fasten.
- ◆ With lock of cap and a cover

CLG836



- ◆ Without monitoring holes, fuel may spill out.
- ◆ Fuel tank cap can not be hold when refill because of the smooth face.

LW300F



Need improved image

- ◆ Fuel tank cap also can be hold well with protruding part when fasten.

LG936L



- ◆ Open size of engine hood is large, easy to repair and maintain.
- ◆ Filters are amounted at the same side, convenient to replace filters.

CLG836



- ◆ Open size of engine hood is large, easy to repair and maintain.
- ◆ Filters are not convenient to replace.

LW300F



- ◆ Open size of engine hood is small, not convenient to replace filters.

LG936L



- ◆ Window lattice can be rotated open ,convenient to maintain radiator .
- ◆ Radiator can be rotated 35° to improve heat dissipation.

CLG836



- ◆ Window lattice also can be rotated but the radiator can not be rotated.

LW300F



- ◆ The window lattice is fixed by bolts and it is not convenient to maintain the radiator.



SDLG
Extras Contrast



RELIABILITY IN ACTION

LG936L



Bolted fitting teeth is firm and convenient to replace.

CLG836



Pin fitting teeth is also convenient to replace but may loose after 1000h as operator said.

LW300F



Also bolted fitting teeth

LG936L

CLG836

LW300F

Need improved
image



The clearance between pin and arm is large so the sand or dust can flow in and the pin will be damaged, operator have to cover it in practical.



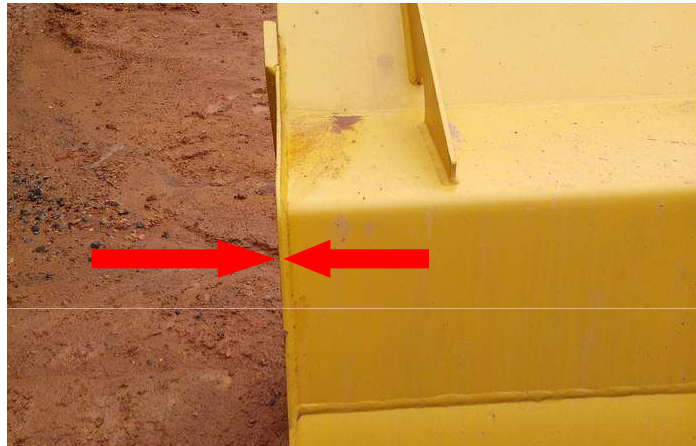
Also a big gap

LG936L



The side plate of bucket is thick and strong

CLG836



Owners complain that the side plate of bucket is just as thin as 1.8tons wheel loaders of other brand.

LW300F



The side plate of bucket is thick and strong

LG936L

CLG836

LW300F



Steering cylinders of
some CLG36 units
leaked oil.

LG936L



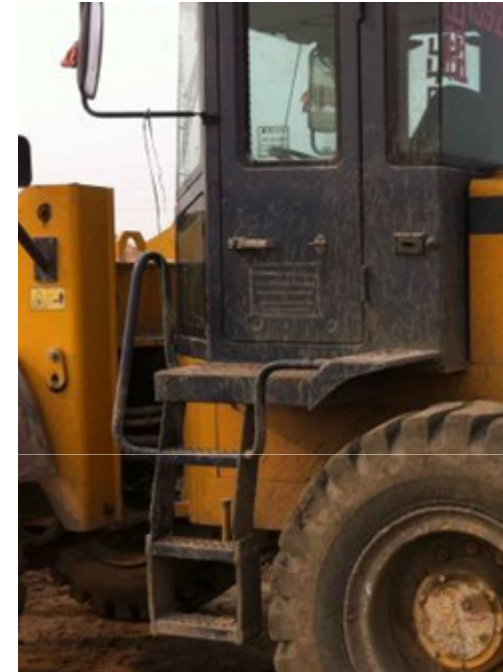
Handles are located reasonably and conform to man-machine engineering.

CLG836



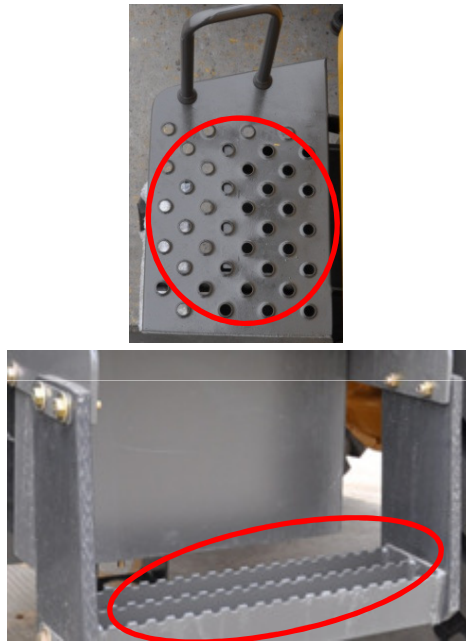
Handle are too high and only one is useful , when operator get in cab, he may lose his balance.

LW300F



Also reasonable

LG936L



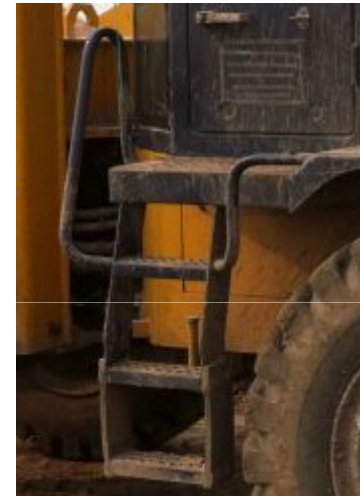
- ◆Punching holes from bottom to top to prevent slipping.
- ◆Preventing slipping ladder

CLG836



- ◆Just normal plate that can not preventing slipping.

LW300F



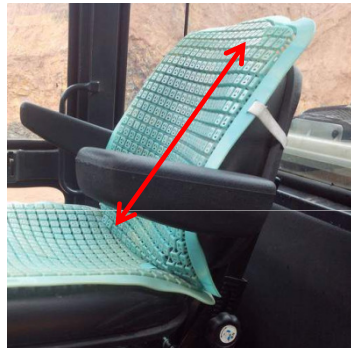
- ◆Punching holes.
- ◆Preventing slipping ladder

LG936L



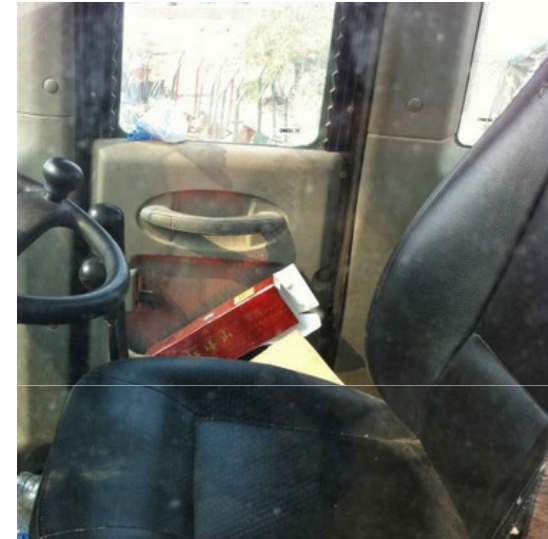
- ◆ Can be adjusted at 6 directions
- ◆ Whole backrest
- ◆ With handrail
- ◆ With seat belt

CLG836



- ◆ Half backrest, tired easily
- ◆ With handrail
- ◆ Without seat belt

LW300F



- ◆ whole backrest
- ◆ Without handrail
- ◆ Without seat belt



All necessary information is shown and now the instrument is replaced by digital instrument panel and easy to read.



Without engine oil pressure gauge and engine speed recorder while indicator lights are less and simple.



Without engine speed recorder, indicator lights are simple.

LG936L

CLG836

LW300F

Steering wheel of LG936L is light and easy to operate.

Many operators said :
Steering wheel of 3 tons
Liugong machines are very heavy, and easy to tired.

?

LG936L



CLG836



LW300F



- ◆ Gear of gearbox is very clear
- ◆ Easy to operate

Owners complain :

- ◆ Position of F1 and F2 are not very clear, if the operator is not very careful, he may put the handle between gear 1 and gear 2, gearbox is easy to damage with this.

- ◆ Mentioned above is very common with 3 tons machine of Liugong.

?

LG936L



- ◆A/C is standard equipment for most indent numbers
- ◆Harmonize and beautiful

CLG836



- ◆A/C is added by owners themselves, which will destroy the structure, and looks not good.

LW300F



- ◆A/C is added by owners themselves, which will destroy the structure, and looks not good.

LG936L



- ◆ With 2 work lights on top of cab.
- ◆ With 2 lights on engine hood.
- ◆ With 2 sets tail lights.

CLG836



- ◆ Only 2 lights on engine hood.

LW300F

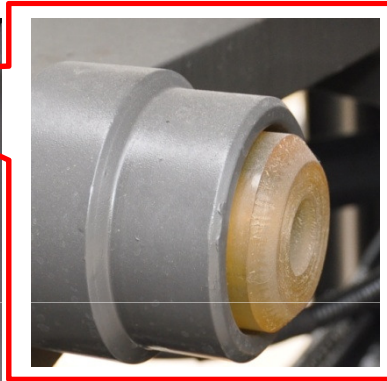


- ◆ With 2 work lights on top of cab.
- ◆ With 2 sets tail lights.

LG936L

CLG836

LW300F



No

No

◆ Soft steering position limit
reduced the steering shock, and
improve comfort.

Vision & Mission

Our Vision

To become the No.1 Chinese construction equipment brand for reliability, customer satisfaction and Brand image in the construction machinery industry.

Our Mission

To provide highly reliable products and services in order to maximize our value in the eyes of the customer.

Brand Promotion Slogan

Reliability in Action



05/06



RELIABILITY IN ACTION