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Wheel loaders ZL 75H

CATERPILLAR TECHNOLOGY



- Equipped with reliable Cummins engine (USA)
- Kick-down switch allows better efficiency & easy operation
- Reliable ZF transmission case and Torque Converter
- Famous original GRAZIANO or VOLVO wet-type axles with DL multidisc limited-slip differentials deliver maximum traction in changing traction conditions
- Bucket automatic leveling ability
- Combined seal cylinder obtains high seal performance and more reliability

Overall Dimension

- 1 Length(with bucket on ground) 8698(mm)
- 2 Width(to outside of wheels) 3099(mm)
- 3 Bucket width 3250(mm)
- 4 Height(To the top of the cab) 3686(mm)
- 5 Wheel base 3400(mm)
- 6 Tread 2350(mm)
- 7 Min. ground clearance 510(mm)

Main Technical Specification

- 1 Rated load 7500(Kg)
- 2 Operating weight 23500kg
- 3 Rated bucket capacity 4.2(m³)
- 4 Max. breakout force 220KN
- 5 Max. Driving force 222 KN
- 6 Max. dump clearance 3220(mm)
- 7 Dump reach 1275(mm)
- 8 Dump angle at any position $\geq 45^\circ$
- 9 Digging depth(with bucket bottom horizontal) 221(mm)
- 10 Min. turning radius
 - (1)Outside of bucket 7042(mm)
 - (2)Outside of rear wheel 6487(mm)
- 11 Pivot angle frame 38+10
- 12 Oscillating angle of rear axle +12°
- 13 Lifting time of bucket 6.1(sec.)
- 14 Lowering time of bucket 3.8(sec.)
- 15 D u m p i n g t i m e 1.9(sec.)
- 16 Traveling speed(Km/h)
 - (1)1st gear (Forward & reverse) 7.4
 - (2)2nd gear (Forward & reverse) 12.4
 - (3)3rd gear (Forward & reverse) 25.9
 - (4)4th gear (Forward) 37

Diesel engine

- 1 Model Cummins M11-C290
- 2 Type Direct injection. Turbocharged. Water cooling
- 3 Rated output 216(Kw)
- 4 Inter-bore of cylinder/stroke 125/147(mm)
- 5 Total exhaust of cylinder 10.8(L)
- 6 Model of starting motor 42MT400
- 7 Power of start motor 7.5(KW)
- 8 Voltage of starting motor 24(V)
- 9 Rated speed 2100(r/min.)
- 10 Max. Torque 1329(N.m)
- 11 Starting type Electric
- 12 Min. specific fuel consumption 198(g/Kw.h)
- 13 Engine specific oil consumption 1.0 (g/Kw.h)
- 14 Net weight 980(Kg)

Transmission System

Torque Converter

- 1 Type 3-element.single stage
- 2 Torque ratio 2.985
- 3 Max. Dia. of flow path 370(mm)
- 4 Cooling type Pressure oil circulating

Gear Box

- 1 Model ZF4WG308
- 2 Type Fixed shaft. Power shift
- 3 Gear shift position 4 Forward and 3 reverse gears

Axle and Tire

- 1 Type of main reducer single stage
- 2 Gear ratio of main reducer 4.777
- 3 Type of final reducer single stage planetary
- 4 Gear of ratio of final reducer 5.167
- 5 Total gear ratio 24.685
- 6 Size of tyre 26.5-25 -20PR (L-3)

Working Device Hydraulic System

- 1 Model of oil pump 322-9529-157
- 2 System pressure 21(MPa)
- 3 Model of distribution valve HUSCO 7130-B97
- 4 Model of pilot pressure controller valve HUSCO 7480-75
- 5 (d*I)Dimension of lifting cylinder $\Phi 180*100*767$ (mm)
- 6 (D*I)Dimension of tilting cylinder $\Phi 210*110*555$ (mm)

SteeringSystem

- 1 Type Middle articulated frame. full hydraulic power
- 2 Model of steering pump 322-9112-207
- 3 Model of steering gear 150-1084
- 5 System pressure 17.5MPa
- 6 Dimension of steering cylinder $\Phi 100*50*441$ (mm)

Brake System

- 1 Type of traveling brake Full hydraulic wet-type disks brake
- 2 Oil pressure 15 (MPa)
- 3 Type of emergency brake Lower pressure alarm brake
- 4 Type of parking brake Electric control brake

Oil Capacity

- 1 Fuel(diesel) 423(L)
- 2 Engine lubricating oil 32(L)
- 3 Oil for converter and gear box 38(L)
- 4 Oil for hydraulic system 300(L)
- 5 Oil for driving axles (F/R) 70(L)+57(L)

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USD 238 100 FOB Shanghai