

ENGINE

Model	Case Family IV 13 Liter, Tier III certified	
Type	4-stroke, variable geometry turbo and air to air cooled diesel	
Injection	Electronic	
Cylinders	In-line 6	
Bore/stroke	5.31 in x 5.90 in (135 x 150 mm)	
Displacement	787 in ³ (12.9 L)	
Aftercooler	Yes	
Horsepower per SAE J1995		
Gross	410 hp (306 kW) @ 2100 rpm	
Net	380 hp (284 kW) @ 2100 rpm	
Maximum torque @ 1000 rpm		
Net	1,364 lb-ft (1850 N·m)	

TRANSMISSION

Model	ZF 6WG310	
Type	Powershift	
Torque converter	Lock up all gears	
Ratio	1.84:1	
Gears	6 forward/3 reverse	
Forward travel – mph (km/h)		
1st	3.2 (5.2)	
2nd	5.0 (8.1)	
3rd	8.0 (12.9)	
4th	12.4 (19.9)	
5th	19.2 (30.9)	
6th	29.8 (48)	
Reverse travel – mph (km/h)		
1st	3.4 (5.5)	
2nd	8.5 (13.6)	
3rd	20.3 (32.6)	
Torque proportion – front/rear	33.3%/66.6%	
Dropbox	Gearbox integrated	
Gradeability	60% max. (27°)	

BRAKES

Service – caliper	2 per wheel and 2 front axle (8), outboard dry disks (6)	
Parking – caliper (2)	Protected disc (1) on drive shaft (pneumatic)	
Engine brake		
Transmission retarder		

TRANSFER BOX

Mounting	Integral
Ranges	1
Front axle interlock	

FRONT WHEEL ENDS

Make/model	ZF/RP17
Type	Outboard planetary

INTERMEDIATE AND REAR DRIVE AXLES

Make/model	ZF/MT-D3105
Type	Outboard Planetary
Axle	Limited slip

CHASSIS

Type	Front/rear box frame
Linkage	Universal joint

STEERING/ARTICULATION

Frame connection	4 - taper roller
Articulation angle degrees	45°
Steering turns lock-lock	4.5
Secondary steering type	Ground drive

SUSPENSION

Front type	Semi-independent arms
Front suspension	Nitrogen-oil
Rear type	2-Rocking beams
Rear suspension	Rods

LOAD BODY

Construction	Ribless
Body tipping angle	68°
Body tipping time to raise/lower - sec	11/13
Tip cylinders type	Multi stage
Power down	Yes, 1st stage
Loadover height – ft/in (mm)	10 ft 1 in (3070)

PAYLOAD

Payload – lbs (kg)	69,445 (31 500)
Capacity, struck	19.6 yd ³ (15 m ³)
Capacity, heaped SAE 2:1	26.2 yd ³ (20 m ³)

DIMENSIONS

Overall length	35 ft 4 in (10780 mm)
Overall tire width	10 ft 6 in (3190 mm)
Overall height	12 ft 6 in (3800 mm)
Approach angle	21°
Turning radius	
Outside	28 ft 2 in (8588 mm)
Inside	15 ft 0 in (4572 mm)

CAPACITIES

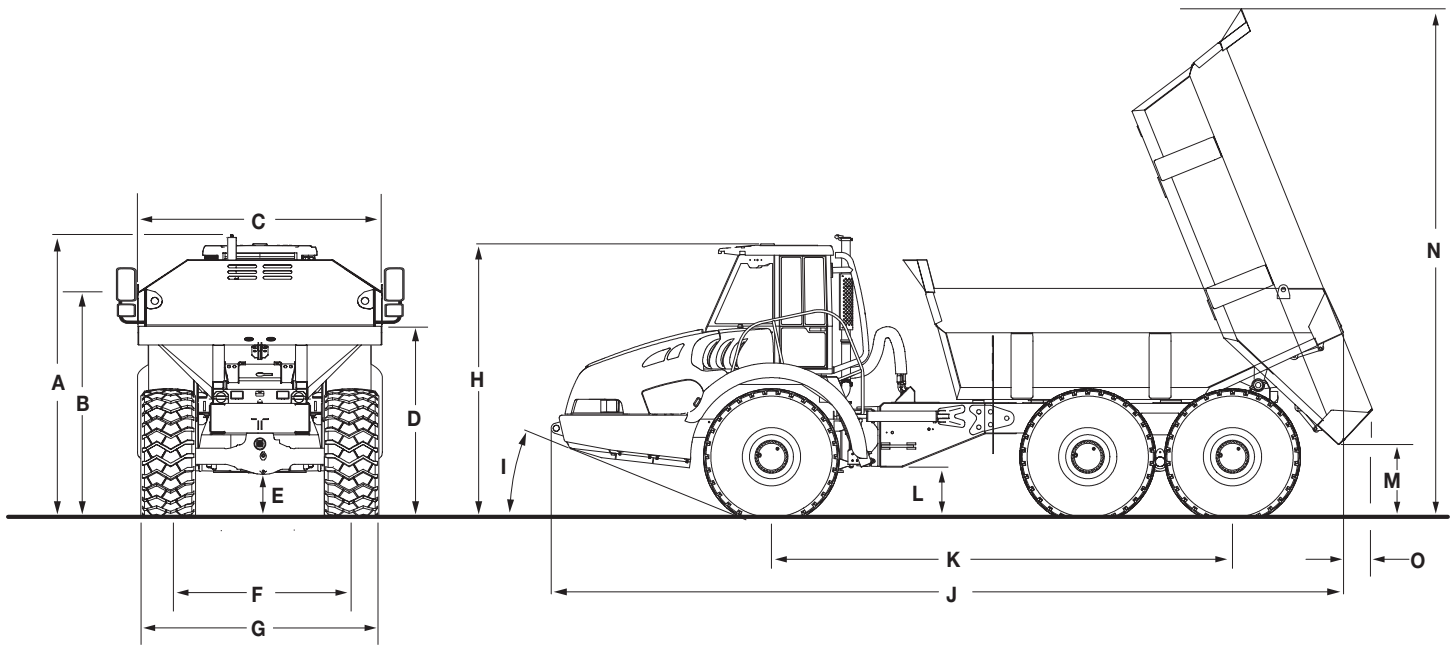
Fuel tank – gal (l)	119 (440)
Hydraulic reservoir – gal (l)	79.3 (300)
Engine oil – gal (l)	9.2 (35)
Transmission – gal (l)	9.4 (35.5)
Front wheel ends – gal (l) (ea)	2.4 (9)
Drive axles	
Intermediate – gal (l)	9.0 (34)
Rear – gal (l)	8.7 (33)

TIRES

Rim	5 section
Rim size	25 x 22
Standard tire	Tubeless 26.5 x R25

WEIGHT

Weight	62,832 lbs (28 500 kg)
Front:	31,085 lbs. (14 100 kg)
Rear (ea):	15,873 lbs. (7 200 kg)
Total laden weight	132,277 lbs. (60 000 kg)



DIMENSIONS

A.	Overall height – top of muffler	150 in (3.80 m)
B.	Height to side of load body	121 in (3.07 m)
C.	Load body width	131 in (3.33 m)
D.	Height to load bed end	101 in (2.57 m)
E.	Ground clearance – rear differential	21 in (0.54 m)
F.	Tread width – center to center	99 in (2.52 m)
G.	Overall width	126 in (3.19 m)
H.	Height to top of cab	145 in (3.68 m)
I.	Approach angle	21°
J.	Overall length	424 in (10.780 m)
K.	Wheelbase	246 in (6.270 m)
L.	Ground clearance @ articulation point	25 in (0.64 m)
M.	Dump clearance	37 in (0.94 m)
N.	Maximum height – dumping position	270 in (6.87 m)
O.	Rear dumping clearance	27 in (0.68 m)

STANDARD EQUIPMENT

OPERATOR'S ENVIRONMENT

ROPS (SAE J1040-ISO 3471)/
FOPS (SAE J7231-ISO 3449) cab
EPA off-road certified
Heater/defroster/pressurizer
Air conditioner
Windshield wiper and washer, front and side
Rear window protection grille
Outside rear view mirrors
Adjustable steering column
Air suspension driver's seat
3 inch wide retractable seat belt
Training seat
Radio ready
Windshield sun shade
Cup holder
24V to 12V converter

INSTRUMENTATION

Hourmeter
Tachometer (rpm)
Speedometer (mph and km/h)
Fuel level
Engine coolant temperature
Engine oil pressure
Transmission oil pressure
Transmission visual display unit

OPTIONAL EQUIPMENT

BODY

No body or hoist cylinders
Rock body
Body extensions
Rear tailgate - mechanical
Body heating kit

INDICATOR LIGHTS

Alternator charging
Turn signal
Service brake pressure
Parking brake engaged
Front axle interlock
Dump body raised
Warning lights test button

SWITCHES

Two speed front wiper
Front wiper washer
Side wiper washer
Interior lights
Horn
24-volt cigarette lighter w/ashtray
Hazard warning
Reverse alarm
Hi-beam lights
Turn signal

TRANSMISSION

Hydraulic retarder

ENGINE

Tier III certified
Engine brake
Electronic Fuel Injection
Air cleaner – pre-cleaner

ELECTRICAL

24-volt system
170 amp hour batteries (2) – 1200 CCA
90 amp alternator
Head light, stop light, reverse light
Front and rear turn signals/flashers
12-volt wiring
Electrically operating tilt up hood

HYDRAULICS

Flow amplified steering
Hydraulic diagnostic quick couplers

EMERGENCY STEERING SYSTEM

Ground driven steering pump (1)

MISCELLANEOUS

Auto Lube System
Cold start aid – Grid heater

TIRES

Machine available equipped with four tires

OPERATOR'S ENVIRONMENT

Rear view camera & monitor
Rotating beacon

MISCELLANEOUS

Ground line start up
Auto warm up with retarder
Cab mounted work lights
Engine block heater

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NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

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