



Cat® SU488 LHD

Scoop

Specifications

Dimensions (approximate)

Overall Length		
With lifting forks	32 ft 6 in	9910 mm
With bucket	32 ft 6 in	9910 mm
Overall Width		
With lifting forks	9 ft 4 in	2845 mm
With contoured bucket	9 ft 4 in	2845 mm
Wheelbase	12 ft 11 in	3940 mm
Scoop utility empty weights	43,000 lb	19 500 kg
with 3,000 lb Ballast	46,000 lb	20 870 kg
Ground Clearance (No Axles Spacers) (Please reference sales drawing for Ground Clearance profile)		
35x15-15 Tires	10 in	254 mm
38x16-15 Tires	11 in	280 mm
44x18-20 Tires	14 in	356 mm
Adjustable Cab Height (minimum)		
35x15-15 Tires	3 ft 8 in	1120 mm
38x16-15 Tires	3 ft 9 in	1140 mm
44x18-20 Tires	4 ft 0 in	1220 mm
Main Frame Height		
35X 15-15 Tires	3 ft 7 in	1090 mm
38X 16-15 Tires	3 ft 9 in	1140 mm
44X 18-20 Tires	4 ft 0 in	1220 mm
Inside turn radius	12 ft 0 in	3660 mm
Outside turn radius	29 ft 4 in	8940 mm
Steering articulation	80°/Total	80°/Total

Lift and Carry Capacity

12 tons (10.9 tonnes) at 36 in (914 mm) from bucket/RAS pivot

Engine (4 Cylinder)

Type	Diesel, Turbo Charged, and 4 Cycle
Cooling System	Water based radiator
Cooling fan	Hydraulic driven fan
Engine make/model	Deutz 1013 FC
Displacement	290.7 cu in 4.8 L
Maximum power tested	150 hp (112 kW) @ 2,300 rpm
Maximum torque tested	480 lb-ft (650 Nm)

Engine Speeds

Low idle	900 rpm
High idle	2,450 rpm

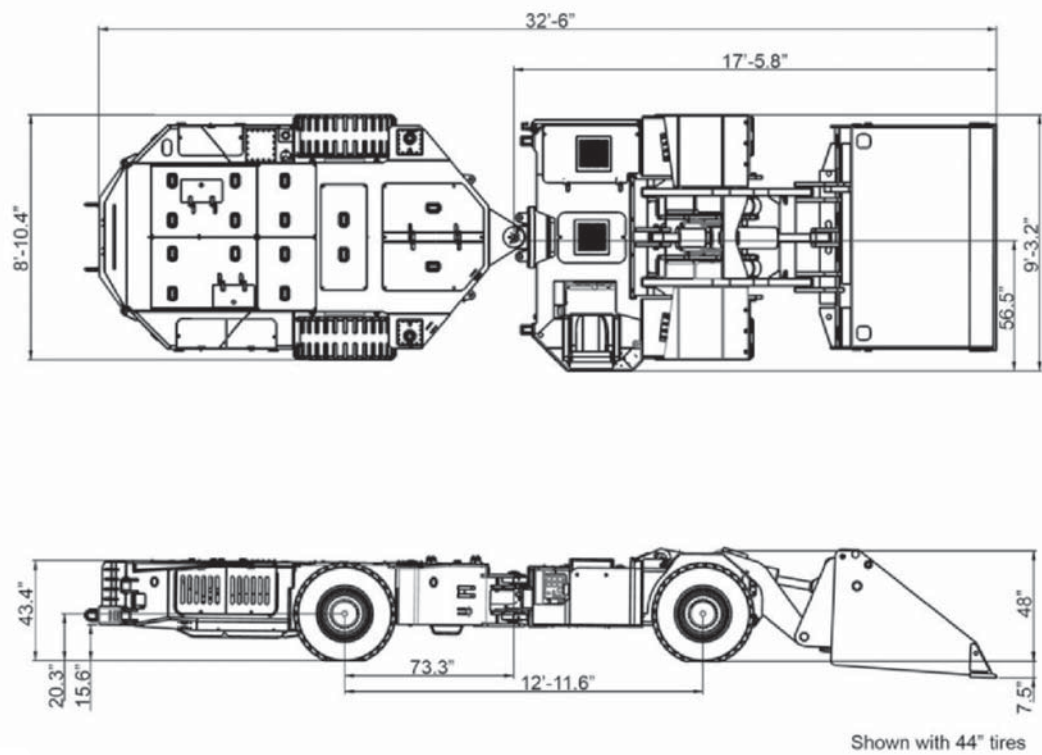
Start System

Starter motor type	Electronic 24 Volt
Optional motor type	Electronic 12 Volt

Intake Air Cleaner

Type	Dry
Intake dual element type	Primary & Secondary

Scoop—SU488 LHD



**Detailed GA drawings available for specific dimensions and component locations*

Exhaust System	
Type	Preliminary DOC
Make	Evarpar/ECS
After Treatment	Optional
DPM Control	Ceramic filter option

Transmission:	
Type	Power shift with Fwd/Rev mod
Make/Model	Dana 32000 series
Speeds, forward and reverse	4

Torque Converter:	
Type	Mounted on engine, Single Element
Make/Model	Dana integral

Axles (Front/Rear):	
Type	Outboard Planetary/Optional Inboard Planetary
Make/Model	Kessler 72 Series Optional John Deere 1200 Bevel gear and pinion
Differential type	Hydraulic Actuated Brake Cooling Std w/Kessler Axle

Wheels	
Make/Model	3 piece (Heavy Duty)

Tires – Standard	
Size	35x15-15
Ply rating	Bias
Inflation media	Urethane Fill
Size	38x16-15
Ply rating	Bias
Inflation media	Urethane Fill
Size	44x18-20
Ply rating	Bias
Inflation media	Urethane Fill
Load	20,100 lbs @ 5 mph 9120 kg @ 8 kph



Scoop—SU488 DN

Hydraulic Systems

Steer/brake system	Open center, Pilot Control
Bucket/PTO system	Open center, Pilot Control
Auxiliary system	Open center, Pilot Control
Tank type	Sealed w/Breather

Hydraulic Filtration:

Steer/brake system	Pressure 10 micron
Bucket/PTO system	Pressure 10 micron
Auxiliary system	Pressure 10 micron Tank mounted, 25 micron
Common Return	replaceable bypass

Main Hydraulic Pump

Type	Gear	
Std pump output @ 2,000 rpm	28 gpm	106 lpm

Cooling/Fan Pump

Type	Gear	
Std pump output @ 2,000 rpm	4.5/12 gpm	17/45 lpm

Cylinders

Type	Double acting
Rods	Hard chromed
Counterbalance load	Lock valves Lift & Tilt

Steering System

Control valve	Closed center
Actuation	HRO Control

Accumulator Brakes

Type	Piston	
Quantity x capacity	116 cu in	1.9 L
Operation Pre charge	900 psi	6.2 MPa
	Nitrogen pressure	

Bucket System

Control valve	Closed center w/float
Actuation	HRO

Articulation

Bearing type and size	Pin & bearing
Bush material	Hardened steel
Pin material	Hardened steel
Degrees of turn either side	45°

Oscillation

Type	Ball Bearing at Articulation
Degrees up and down from horizontal	15°

Seating (Driver)

Type	Adjustable Cab
------	----------------

Canopy

Type	Adjustable CAB Certified to MSHA req
------	--------------------------------------

Electrical System

Type	Open
Voltage	12/24
Polarity	Floating

Lights

Number/location	2 front, 2 rear
Type	Ocenco/MCI

Alternator

Drive	Belt
Type	14V/90 amps

Scoop—SU488 DN

Service Capacities

Hydraulic tank	70 gal	265 L
Fuel Tank	35 gal (MSHA Limited)	132 L

With 35x15-15 Tires

1st gear max	1.8 mph	2.9 kph
2nd gear max	3.7 mph	6.0 kph
3rd gear max	6.4 mph	10.3 kph
4th gear max	11.1 mph	17.9 kph

Maximum Tractive Effort

Refer to engineering for information dependant on the applications

Grade-ability

Front to rear	Up to 30%
---------------	-----------

All specifications are subject to change without notice.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at mining.cat.com and www.cat.com

© 2012 Caterpillar Inc.
All rights reserved

AEHQ6759 (09-12)

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

