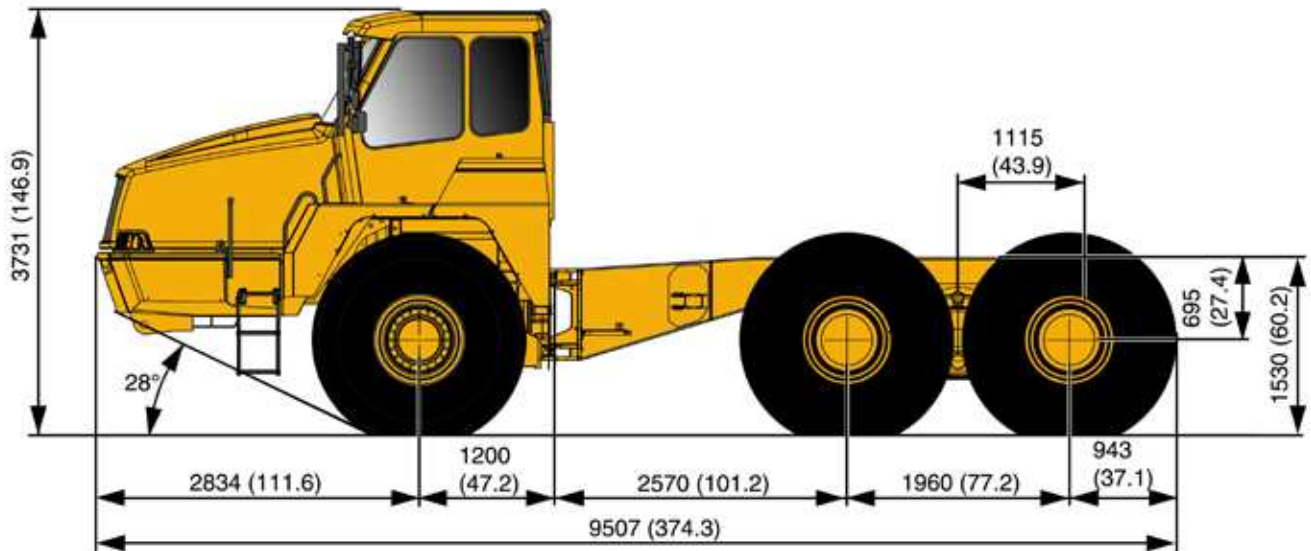


MOXY TUG RANGE



MTR450



millimetres (inches)

WEIGHTS

	LB	KG
Front axle	29,656	13,480
Rear axle	23,254	10,570

NOTE: All weights include a full fuel tank and operator

CAPACITIES

	GALLONS	LITRES
• Fuel Tank	129	490
• Hydraulic System	73	275
• Engine Cooling System	13	50
• Transmission	14.5	55
• Dropbox	9	34
• Engine Crankcase	3.5	13.2
• Front Reduction Gear	2 x 2	2 x 7.5
• Rear Differential	12	46
• Tandem Housing	2 x 40	2 x 150

ENGINE

- Scania DC 12, water-cooled unit injected diesel engine with turbo charger and air to air intercooler
- Complies with Stage 3 of EU Directive 97/68/EC and Tier 3 of USA/California regulations (ISO 8178) for emissions

- Power rating: (1kW = hp/1.36)
 - (ISO 3046) 450 hp (331 kW)
 - (ISO 9249) 438 hp (322 kW)

- No. of cylinders: 6 (in line)
- Cylinder volume: 714 cubic inches (11.7 litres)
- Air filter: Dry type

TRANSMISSION

- ZF 6 WG 310 Dash 4 electronically-controlled automatic transmission.
- The torque converter has automatic lock-up in all gears

SPEEDS	MPH	KMH
1st	4	6
2nd	6	9
3rd	9	15
4th	14	23
5th	21	34
6th	33	53

BRAKE SYSTEM

- Dual circuit braking system acting on all six wheels
- Approved according to ISO 3450
- All hydraulic operated brakes with enclosed oil-cooled wet multiple discs all round
- Spring actuated hydraulic released parking brake, mounted on propeller shaft
- Max. gradient, parking brake: 20
- Automatic engine brake as standard
- Automatic transmission retarder as standard

HYDRAULIC SYSTEM

- Pumps : 2 variable displacement piston pumps :
 - 1 for steering & attachments
 - 1 for cooling, fan, brakes & auxiliaries

- Max Capacity : 84.5 gallon/min (320 l/min) @ 2200 rpm
- Filtration : One return flow filter & high pressure filter
- Safety valve settings :
 - Steering 3046 PSI (210 bar)
 - Attachments 4061 PSI (280 bar)

ELECTRICAL SYSTEM

- Alternator : 28V 100A
- Batteries : (two): 12V 225Ah (series connected to give 24V)
- Starter : 9.1 hp (6.7 kW)

SUSPENSION

- Front: Independent with long life rubber springs and hydraulic shock absorbers
- Rear: Free-swinging tandem housing

ARTICULATION HINGE AND STEERING

- Articulation hinge with forward mounted turning ring
- Steering cylinders (two): Double-acting
- The steering is approved according to ISO 5010
- Max. steering angle: 45°
- Ground driven emergency steering pump

DRIVE LINE

- Full-time 6 x 6 drive with two transverse differentials and one longitudinal
- Front axle transverse differential: Limited-slip with 45% locking ratio
- Rear axle transverse differential: Limited slip with 45% locking ratio
- Inter-axle longitudinal differential: Torque-proportioning differential, integrated into Dropbox

Torque distribution:

- 1/3 to the front axle
- 2/3 to the rear axle
- 100% lockable
- Tandem housing: Gear driven, free-swinging
- Provides equal drive to rear wheels and ensures the best possible ground contact – whatever the ground conditions

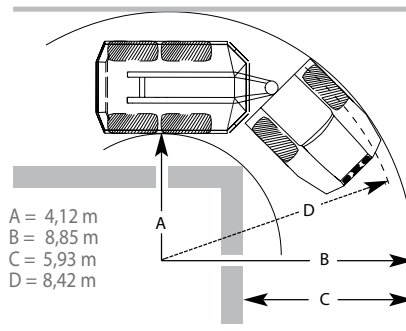
CAB

- Approved to ROPS/FOPS standards (ISO 3471, ISO 3449, SAE J231 and SAE J1040 April '88)
- Low interior sound level 74 dB(A) (ISO 6394)
- The cab is centrally located on rubber mountings
- Hand and arm vibrations are less than 2,5 m/s according to ISO 5349-2
- Whole body vibration is less than 0,5 m/s according to ISO 2631-1
- Superior visibility – for safer operation
- Superior operating controls location
- Adjustable suspended operator seat
- Adjustable steering column
- Heater and Air Conditioning
- Tilting for service access

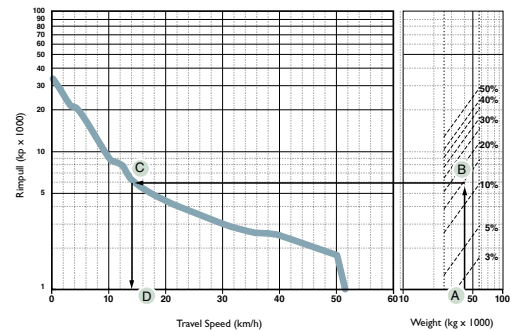
TIRES

- Standard – 29.5 X 25 Radials
- Optional – 73 X 4400 X 32 tires with matching Rims

Turning radius according to ISO 7457: 27.6 feet (8,42 m)



PERFORMANCE DIAGRAM



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