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D 18 WIDE 4X2 T 430 E6

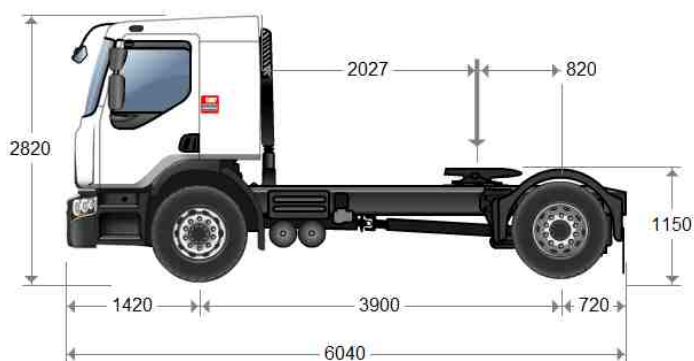
TRACTOR UNIT

Model code : CST_20DA016STD01

GVW 18T / GTW 40 T

GLOBAL CAB

REAR AIR SUSPENSION



WEIGHTS

Wheelbase		mm	3.700	3.900
Maximum Weight (registered)	Total (GVW)	Kg	18000	
Payload	(C)	Kg	11265	11250
Kerb Weight	total	Kg	6735	6750
Chassis cab kerb weight	Front axles (Liftable axle down)	Kg	4632	4652
	Rear axles (Liftable axle down)	Kg	2103	2098
Maximum Weight (registered)	Front axle 1	Kg	7100	
	rear axle 1	Kg	11500	
Maximum Weight (technical)	total (CoC: 16.1.)	Kg	19500	
	front axles (CoC: 16.2.)	Kg	7100	
	rear axles (CoC: 16.2.)	Kg	13000	

To maintain the driving comfort (lightness of steering, braking) of vehicles in all load and driving conditions once the vehicle is bodied, the following minimum front axle load(s) must be respected: 3500 kg
The weight of the vehicle is an average indicative weight of its STANDARD build, filled with urea, oil, windscreen wash liquid and coolant at 100%, fuel level at 90% and with driver (75kg).

LENGTHS

Wheelbase		mm	3.700	3.900
Front Overhang	(H / BEP L016)	mm	1420	
Wheelbase	(F / BEP L011)	mm	3700	3900
Technical wheelbase	(F' / BEP L015)	mm	3700	3900



Wheelbase		mm	3.700	3.900
Rear overhang	Chassis	mm	720	
Overall Chassis Length	(A / BEP L032+L016)	mm	5840	6040

HEIGHTS

Wheelbase		mm	3.700	3.900
Cab height (unladen)	(O)	mm	2821	2820
Max. exterior height unladen	(BEP H001)	mm	2850	2849
Side member height	(BEP H032)	mm	266	
Ground clearance, laden	Front (U1 / BEP H015)	mm	201	
	Rear (U3 / BEP H016)	mm	209	
Frame top height at front axle	Unladen (H1 / BEP H035)	mm	947	946
	Laden (H1 / BEP H036)	mm	879	
Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	955	
	Laden (H2 / BEP H038)	mm	931	

TOWING DEVICE

Wheelbase		mm	3.700	3.900
Swept Swing Clearance	(BEP L078)	mm	2027	
Fifth wheel height from ground	Unladen (BEP H076)	mm	1151	1150
	Laden (BEP H078)	mm	1119	1117
Fifth wheel position	Manufacturer's recommendation (Y / BEP L076)	mm	620	820
	Min. (Ymin / BEP L077)	mm	420	
	Intermediate 1	mm	570	770
	Intermediate 2	mm	520	720
	Max. (Ymax / BEP L075)	mm	820	

WIDTHS

Wheelbase		mm	3.700	3.900
Max. cab width	(BEP W002)	mm	2500	
Frame width	Front (BEP W035)	mm	1080	
	Rear (BEP W036)	mm	850	
Width at rear wheels	Rear axle 1 (V3 / BEP W003.1)	mm	2499	
Track	Front (V1 / BEP W013.1)	mm	2028	
	Rear 1 (V2 / BEP W013.2)	mm	1837	

OTHER

Wheelbase		mm	3.700	3.900
Side member thickness	(BEP W034)	mm	7	
Turning Radius	kerb to kerb	mm	6706	7056

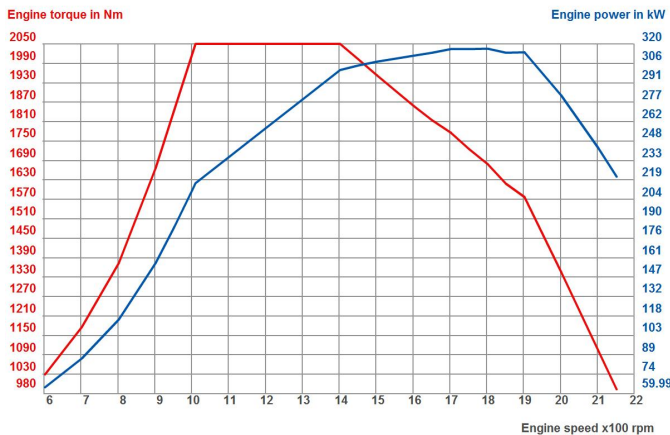


Wheelbase		mm	3.700	3.900
DTI 11 ENGINE	Overall (BEP W012)	mm	7450	7750

Max. power output: 316 kW between 1700 and 1900 rpm
Max. torque: 2050 Nm from 1000 rpm to 1400 rpm
 6-cylinder in-line diesel engine - Common rail high-pressure fuel-injection (1700 bar) - 24 valves - overhead camshaft, rear-mounted timing
 High pressure provided by three pumps on injector bodies
 Bore 123 mm - stroke 152 mm - Capacity 10.8 L
 Turbocharger
 Electronically controlled fan
 Direction of rotation (seen from G/B end): anti-clockwise
 Engine adapted to sulphur diesel
 Antifreeze protection: -25°C.
 EEC EURO VI pollution control level
 Compact after-treatment system (catalytic converter, DPF, SCR)
 Reduction in engine power of 25% when vehicle emissions are above the legislative levels.
 Soundproofing level complies with EEC standards (80dB)

OPTIONS

- Sheet metal oil sump



ENGINE EQUIPMENT

Power mode is activated by passing the 'hard spot' at the end of the accelerator pedal stroke (kick down)
 Partial gas recycling (semi-closed circuit)
 Intake air preheating cold starting device
 Without engine Power Take Off.
 Electronic speed limiter (90 km/h).

OPTIONS

- Power mode inhibited after passing the 'hard spot' of the accelerator pedal
- Automatic engine cut-off (3 min)
- Automatic engine cut-off (5 min)

CLUTCH

Single-plate clutch, diameter 430 mm

GEARBOX

Optidriver AT 2412F gearbox (14.94 - 1) with automatic clutch. Aluminium housing.
 Max. torque 2400 Nm, 12 forwards gears and 3 reverse gears.
 Steering wheel-mounted operating mode selection (automatic/manual) via gear shift selector.
 Gearshifting strategy optimised for DISTRIBUTION
 Gearbox oil cooler, oil/water heat exchanger

OPTIONS

- Gearshifting strategy optimised for FUEL ECO
- Heavy duty gearbox oil cooler, oil/water external heat exchanger

RETARDER

OPTIBRAKE (power rating 300 kW at 2300 rpm): combination of the exhaust brake and valve compression braking, coupled to service brake

OPTIONS

- Voith hydraulic retarder (450 kW - 3250 Nm)

POWER TAKE-OFFS

OPTIONS

- Power take-off S84
 Output: splined hollow shaft (DIN 5462)
 Direction of rotation: as engine
 Torque: 430 Nm
 Ratios: 0.91/1.16
 Position: 17h
- Power take-off S81, 800 Nm, flange output
- Power take-off S81
 Output: flange (DIN 90)
 Direction of rotation: opposite to engine
 Torque: 1000 Nm
 Ratios: 0.71/0.90
 Position: 18h
- Power take-off S81
 Output: splined hollow shaft (DIN 5462)
 Direction of rotation: opposite engine
 Torque: 800 Nm
 Ratios: 0.71/0.90
- Power take-off S81



Output: splined hollow shaft (DIN 5462)
 Direction of rotation: opposite to engine
 Torque: 1000 Nm
 Ratios: 0.71/0.90
 Position: 18h
 • Power take-off S84
 Output: flange (DIN 90)
 Direction of rotation: as engine
 Torque: 430 Nm
 Ratios: 0.91/1.16
 Position: 17h
 Without gearbox mounted PTO

STEERING

Hydraulic steering box with variable step-down power assistance.
 Driving on the right

AXLE

Load capacity (technical max.) Front axle: 7.1 t.

WHEELS AND TYRES

Dimension 315/70 R22.5
Profile G. KMAX S HL/D
 Steel disc wheels
 Front wheel trims
 Without spare wheel.

OPTIONS

- Dimension 315/60 R22.5
- Dimension 385/55 + 315/60 R22.5
- Dimension 385/55 + 315/70 R22.5
- Dimension 295/80 R22.5
- Dimension 385/65 + 295/80 R22.5
- Dimension 315/80 + 295/80 R22.5
- Dimension 315/80 R22.5
- Dimension 385/65 + 315/80 R22.5
- Profile B. ECOPIA H-STEER-1/H-DRIVE-1

BRAKING

Service brake:

Braking system with two independent circuits
 All-disc brakes
 Electronic management of air production by APM (Air Product Management)
 Dryer cartridge optimised by preventive maintenance
 Twin-cylinder air compressor 1100 l/min, 760 cm³
 Air tank mounting rubber fittings
 Two line trailer braking system (ISO connections).
 15-pin electrical accessories socket
 Trailer brake device at cab rear

EBS:

Anti-lock braking system (ABS).
 Anti-slip regulation (ASR).
 Drag torque control (Torque control during downshifting).
 Brake harmonisation of tractor and trailer (if equipped)
 Retarder and service brake linking
 Differential engagement management (if equipped) at speeds <10 km/h (4x2)
 Braking performance warning
 ESC (Electronic Stability Control) trajectory control and anti-rollover system
 Coupling traction test
 Emergency brake assist (EBA)
 Emergency brake lights (EBL)

Parking brake:

Air operated spring brake actuators on rear wheels
 Hand brake valve.

Brake adjustment:

Automatic brake lining slack compensation.

Emergency brake:

Ensured by independence of main device circuits

OPTIONS

- Disengageable air compressor
- Aluminium air tanks.
- "Differential lock release if vehicle speed exceeds 10 km/h" adaptation
- Anti-lock braking system (ABS).
 Anti-slip regulation (ASR).
 Brake balancing between tractor unit and trailer.
 (Disc) brake pad wear compensation
 Retarder and service brake linking
 Differential engagement management (if equipped) at speeds <10 km/h (4x2)
 Hill Start Assist
 Braking performance warning
 ESC (Electronic Stability Control) trajectory control and anti-rollover system
 Coupling traction test
 Emergency brake assist (EBA)

CAB

Cab exterior:

Global cab
 All steel Cab, electro-zinc plated and cathophoretic paint treatment.
 Cab paint colour: White epla
 technical code: 09350
 Red badge
 Anti-spray deflectors
 Four point mechanical cab suspension.
 Hydraulic cab tilt.
 2 heated, remote control rear view mirrors.
 Rear view mirrors for bodywork up to 2.55 m wide
 Fold-back front view mirror
 Air horn
 Roof-level air intake.



Air filter clogging indicator
Spray suppression on front wings
Tinted, laminated windscreen.
Without rear window.

OPTIONS

- 4-point cab air suspension with ride-height control system
- Adjustable roof deflector
- External sun visor
- Provision for mounting external sun visor.
- Heated and tinted laminated windscreen
- With 2 rear tinted side windows
- Tinted rear cab window

Cab interior:

Upper storage cupboard with net cover, 2 storage compartments (50 l) with net covers
Three sun blinds on windscreen
DTCO 4.0 digital chronotachograph
Manually operated roof hatch.
Air-suspended driver's seat with fitted seat belt.
Driver's armrest
Red seat belts
Adjustable passenger seat
Blower socket on central console
Removable rear storage compartment, right-hand side
Raised engine tunnel.
Cab lighting time-delay.
Clothes rail
Electrically operated door windows
Handbook in Czech.

OPTIONS

- Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls
- CB pre-equipment.
- Offset 24 V socket
- Air-suspended COMFORT driver's seat, with fitted seat belt, lumbar support, heated cushion and seatback, seat depth adjustment
- Air-suspended passenger seat with seatbelt.
- Passenger armrest
- Storage on engine tunnel
- Rear storage on central tunnel
- Cab independent night heater air/air (2 kW)
- Air conditioning
- Smartphone mounting plate
- Engine hourmeter.
- "DRIVER'S ALCO-LOCK
provide and install immobiliser alco-lock kit" adaptation
- Adjustment of "beam setting for toll chargers"
- "Air blower installation inside the cab" adaptation
- Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls

Steering wheel equipment:

4-spoke steering wheel adjustable for height and depth, includes cruise control controls
OPTIDRIVER control
OPTIBRAKE and retarder control.

OPTIONS

- 4-spoke leather steering wheel adjustable for height and depth, with control for cruise control
- Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls
Analog radio with audio playback and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls

Instrument panel:

12V socket on dashboard, for accessories.
Starting inhibitor controlled by transponder key.
Folding key.
Remote control central door locking.
Speed limiter adjustable via steering wheel control (ASL)
Cruise Control with steering wheel-mounted controls

OPTIONS

- 12 V + 24 V socket on dashboard, for accessories.
- ECO Cruise control with Optiroll
- "ONSPOT type automatic chaining system" adaptation
- Analog and digital DAB and DAB+ radio requiring a digital antenna (not provided)
audio playback via USB and streaming via Bluetooth 4.0 with hands-free function and steering wheel-mounted controls



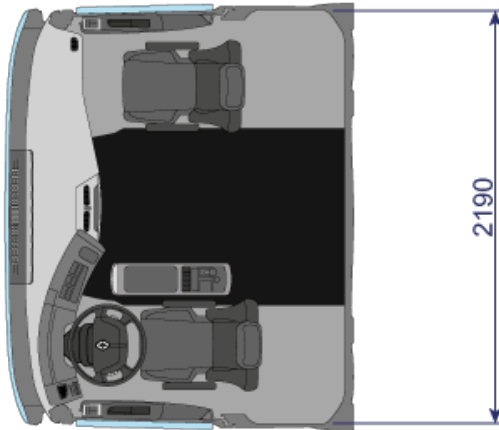
Advanced emergency braking system (AEBS)
English and Czech language display
Additional language (Slovak)

OPTIONS

- FMS Gateway fleet management interface
- Telematics provision including the TGW (Telematics GateWay): including antenna and subscription to Optifleet Map, Check and Drive services
- Constant time gap (CTG) linked to advanced emergency braking system (AEBS)

ELECTRICAL EQUIPMENT

Battery capacity: 185 Ah
Batteries with level check
Battery isolation switch
Alternator : 110 amp capacity.



OPTIONS

- Maintenance-free batteries
- Battery isolation remote control

CHASSIS

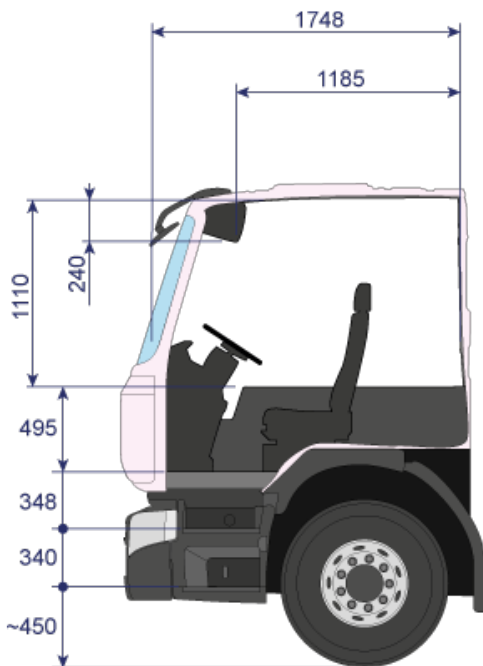
Chassis protective paintwork, mineral grey colour
technical code: 03650
Removable front towing cap.
Front under-run protection.
Closing cross member with pre-drilling for towing yoke
Fifth wheel mounting plate H = 40 mm.
Sheet metal Fontaine SP150 (sheet metal) 2" fifth wheel, D 150 kN
Fifth wheel position: Y = 820 mm
Rear manwalk.
Rear wings with anti-spray
Wings fitted in standard position.
Two wheel chocks with bracket.
Side exhaust.

OPTIONS

- Fifth wheel mounting plate H = 12 mm.
- Fifth wheel mounting plate H = 25 mm.
- Jost JSK 42C, 2" cast iron fifth wheel, D 152 kN
- Jost JSK 36D (sheet metal), 2" sheet metal fifth wheel, D 152 kN
- SH-GF SK36-20, 2" cast iron fifth wheel, D 152 kN
- Fontaine 3000, 2" cast iron fifth wheel, D 150 kN
- Jost 42C, 2" cast iron fifth wheel, reduced maintenance, D 152 kN
- Fifth wheel position: Y = 620 mm
- Fifth wheel position: Y = 420 mm.

ELECTRONIC EQUIPMENT:

SAE cab socket for vehicle data extraction (Optifuel Infomax).
Lane Departure Warning System (LDWS)



- Extended rear platform.
- Engine air filter with easily removable cartridges.
- One wheel chock with bracket mounted on chassis.
- Exhaust flame trap.

BUMPER - STEPS AND LIGHTING

3-part plastic bumper
Access to driving position by 2 stepwell steps.
Step lighting.
Headlamp levelling control.
Running lights
White LED work light (850 lm)

OPTIONS

- Electrical headlamp levelling control.
- Front fog lights.
- 2 orange rotating beacons
- Roof beacon pre-equipment

SUSPENSION

Front suspension

Front parabolic leaf springs.
Stabiliser bar

OPTIONS

- Front air suspension.

Rear suspension:

Rear air suspension.
Air suspension control on dash board.

OPTIONS

- Suspension remote control
- Suspension remote control (2 channels).
- 2-channel air suspension control on dash board

FUEL TANK

Main steel tank.
Main fuel tank: 315 litres capacity D560 profile mounted on right
Fuel filter heater
Sedimenter and prefilter (R60). Bleed control on dashboard.

OPTIONS

- Main and additional steel tanks.
- Main and additional aluminium tanks.
- Main fuel tank: 255 litres capacity D560 profile mounted on right
- Main fuel tank: 405 litres capacity D710 profile mounted on right
- Main fuel tank: 450 litres capacity D710 profile mounted on right
- Main fuel tank: 285 litres capacity D710 profile mounted on right
- Main fuel tank: 220 litres capacity D560 profile mounted on right
- Main fuel tank: 450-litre capacity (D710), on left-hand side
- Main fuel tank: 285 litres capacity D710 profile mounted on left
- Heavy duty sedimenter and prefilter (R90).Bleed control on dashboard.
- "Direct diesel fuel supply for ancillary equipment" adaptation
- Anti-siphoning device

AdBlue

50 L plastic AdBlue tank for fuel tank capacity greater than 200 litres.

OPTIONS

- 68-litre AdBlue tank (D560)

STANDARD EQUIPMENT

Warning triangle.
Windscreen washer bottle capacity: 12L

OPTIONS

- Tool box on LHS chassis
- 125L tool box on chassis.

BODYWORK

Bodybuilder access through bulkhead
Orange LED side marker lights with reflector
Provision for bodybuilder interface.

OPTIONS

- Provision for bodybuilder electronic box interface.
- Bodybuilder suspensions control:
Inhibition of suspension height regulation, platform kneeling, height regulation



SERVICE

Optifleet:

OPTIONS

- Pre-equipment for monthly Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, activation of service on request subject to monthly subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 1-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 2-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 3-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 4-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 5-year prepaid subscription
- Optifleet Check: technical data reports for fuel consumption monitoring by vehicle and by driver, 6-month prepaid subscription
- Pre-equipment for monthly Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, activation of service on request subject to monthly subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 1-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 2-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 3-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 4-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 5-year prepaid subscription
- Optifleet Drive: Monitoring of activity times and remote download of driver card data and tachograph memory, 6-month prepaid subscription
- Pre-equipment for monthly Optifleet Map: vehicle geolocation, geofencing and route analysis. Activation of service on request subject to monthly subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 1-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 2-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 3-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 4-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 5-year prepaid subscription
- Optifleet Map: vehicle geolocation, geofencing and route analysis, 6-month prepaid subscription
- Pre-equipment for monthly Optifleet Map+: high frequency vehicle geolocation, geofencing and route analysis. Activation of service on request subject to monthly subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 1-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 2-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 3-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 4-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 5-year prepaid subscription
- Optifleet Map+: vehicle geolocation, geofencing and route analysis, 6-month prepaid subscription

PACKS

- Pack "Fuel Eco" comprising:
ECO Cruise control with Optiroll
Automatic engine cut-off (3 min)
Gearshifting strategy optimised for FUEL ECO
Disengageable air compressor
Power mode inhibited after passing the 'hard spot' of the accelerator pedal
- Pack "Protect" comprising:
EBS MEDIUM with ESP
Tyre pressure gauge
Tyre inflation extension piece
Cab volumetric alarm, immobilizer and load protection.
Passenger side vision door with lower tinted window
Reversing warning buzzer, including night switch.



GEARBOX RATIOS

1	2	3	4	5	6	7	8	9	10	11	12
14.94	11.73	9.04	7.09	5.54	4.35	3.44	2.70	2.08	1.63	1.27	1.00

PERFORMANCE

Gearbox ratio	Axle ratio	Code	Final ratio	Engine rpm at max torque	Speed	Gradient in % (2)	Engine speed at 90 km/h	Governed speed in km/h (1)
1	DRIVE AXLE RATIO 2.64	1CJ37	2.640	1008	4.74	45.36		
	DRIVE AXLE RATIO 2.85	1CJ36	2.850	1008	4.39	49.83		
	DRIVE AXLE RATIO 3.08	1CJ23	3.080	1008	4.07	55.03		
	DRIVE AXLE RATIO 3.36	1CJ21	3.360	1008	3.73	61.85		
	DRIVE AXLE RATIO 4.11	1CJ35	4.110	1008	3.05	84.10		
	DRIVE AXLE RATIO 4.12	1CJ18	4.120	1008	3.04	84.45		
	DRIVE AXLE RATIO 4.63	1CJ34	4.630	1008	2.70	105.33		
	DRIVE AXLE RATIO 5.29	1CJ33	5.290	1008	2.37	148.09		
	DRIVE AXLE RATIO 6.17	1CJ32	6.170	1008	2.03	275.52		
	DRIVE AXLE RATIO 2.47	1CJ82	2.470	1008	5.07	42.35		
12	DRIVE AXLE RATIO 2.64	1CJ37	2.640				1280.31	134
	DRIVE AXLE RATIO 2.85	1CJ36	2.850				1382.15	124
	DRIVE AXLE RATIO 3.08	1CJ23	3.080				1493.70	114
	DRIVE AXLE RATIO 3.36	1CJ21	3.360				1629.49	105
	DRIVE AXLE RATIO 4.11	1CJ35	4.110				1993.21	86
	DRIVE AXLE RATIO 4.12	1CJ18	4.120				1998.06	86
	DRIVE AXLE RATIO 4.63	1CJ34	4.630				2245.39	76
	DRIVE AXLE RATIO 5.29	1CJ33	5.290				2565.47	67
	DRIVE AXLE RATIO 6.17	1CJ32	6.170				2992.24	57
	DRIVE AXLE RATIO 2.47	1CJ82	2.470				1197.87	143

(1) Speed limited electronically (except VI < or = 12t, where special regulations apply)

(2) Slope calculated in %, varies according to ground adhesion

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