

## Cushion Tire Lift Trucks LPG

C15C
C18C
C20sC

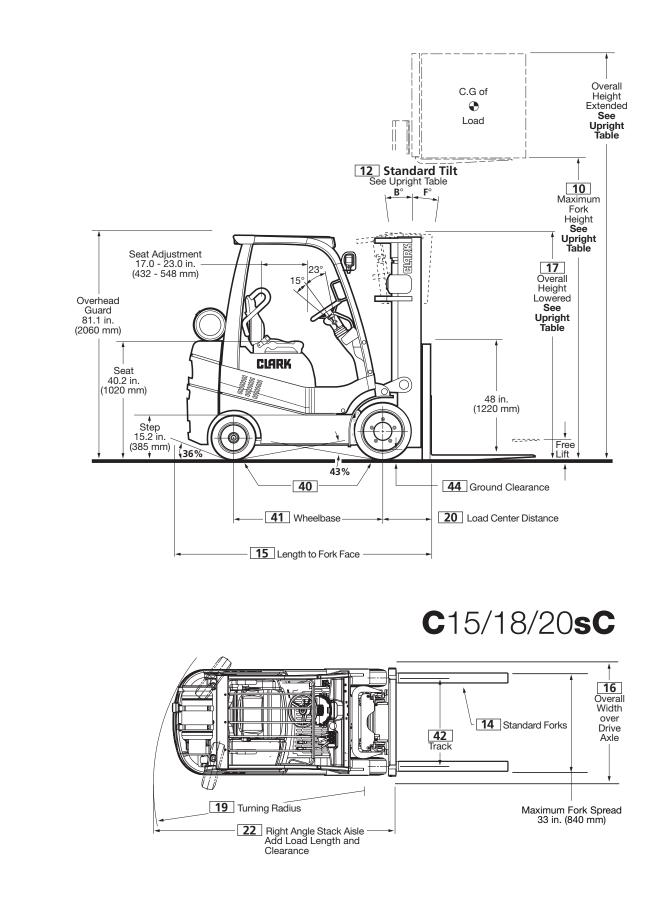
3,000 lbs 1500 kg 3,500 lbs 1800 kg 4,000 lbs 2000 kg

# C15/18/20sC









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### Upright Table

Maxir Fork in	num Height mm	Overall I Lowere in		Free I w/o L in		Standard <sup>2</sup> Tilt Spec B°/F°
C15/1 Stand 89 100 110 121 • 129 143 160 172 183 203	8/20sC ard 2265 2545 2795 3085 3285 3640 4070 4365 4655 5145	67 72 77 83 87 94 104 112 120 133	1693 1833 1958 2103 2203 2380 2653 2853 3048 3378	4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	110 110 110 110 110 110 110 110 110	8/8 8/8 8/8 8/8 8/8 8/8 5/6 5/6 5/6 4/3
	8/20sC Stage 3970 4345 4780 5185 5400 5565 5720 6015 6470 7075	72 77 83 89 92 95 98 102 110 120	1833 1958 2103 2253 2343 2413 2478 2603 2793 3048	49 54 59 65 69 72 74 79 87 97	1201 1326 1471 1621 1711 1781 1846 1971 2161 2416	5/6 5/6 4/3 4/3 4/3 4/3 4/3 4/3 2/0 2/0
<b>C15/1</b> <b>Hi-Lo</b> 115 •127 138 145 150	8/20sC 2925 3215 3515 3695 3810	77 83 89 95 98	1955 2115 2255 2405 2480	54 60 65 71 74	1323 1483 1623 1773 1848	8/8 8/8 8/8 8/8 8/8 8/8

Indicates preferred common specification.

For overall height raised with load backrest, add 48 in. (1220 mm) to maximum fork height.

Standard tilt shown. Contact Clark representative for information on optional tilt. Freelift dimensions shown are without load backrest.

Other uprights available, contact a Clark representative.

#### Available Equipment

- ٠ Wide Drive Tires
- Auxiliary valves
- Hose adaptations Sideshifters
- Hydraulic control options
- Combination stop/tail/backup lights .
- ٠ Rear work light
- Turn signal lights .
- Strobe lights • Backup alarm
- Mirrors
- •
- **Convenience console** Suspension seat, vinyl and cloth

- Reduced height overhead guard U.L. Type LPS construction Swing-Down LPG Tank Bracket
- Seat actuated engine shutdown
- Pre-cleaner overhead guard mounted .
- Air cleaner safety element
- **Travel Speed Limit**
- Bottler's tilt
- **Tire Options** •

#### Notes

Production engines and driveline components may vary in output and/or efficiency by ±5%. The performance shown represents nominal values which may be obtained under typical operating conditions of a machine.

Clark products and specifications are subject to change without notice.

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#### ASME and Insurance Classification

Standard truck meets all applicable mandatory requirements of ASME-B56.1 Safety Standard for Powered Industrial Trucks and Underwriters Laboratories requirements as to fire hazard only for LP and LPS classifications. For further information contact a Clark representative.

#### For Your Safety

Before operating a lift truck, an operator must:

- Be trained and authorized
- Read and understand the operator's manual
- Not operate a faulty lift truck
- Not repair a lift truck unless trained and • authorized
- Have the overhead guard and load • backrest extension in place

During operation, a lift truck operator must:

- Wear a seat belt
- Keep entire body inside truck operator compartment
- Never carry passengers or lift people
- Keep truck away from people and obstructions
- Travel with lift mechanism as low as possible and tilted back

To park a lift truck, an operator must:

- Completely lower forks or attachments •
- Shift into neutral
- Turn key off
- Set parking brake •

Contact your Clark dealer for operator training information.

	1	Manufacturer		Clark
c	2	Model	Manufacturer's Designation	C15CL
General Information			in(mm)	
Ĕ	3	Load Capacity	lbs(kg)	
fl	4	Load Center	Fork Face to Load CG in(mm)	
al I	5	Drive Unit	Туре	LPG
ner	6	Operator Type	2 F	Rider-Seated
ē	7	Tire Type		Cushion
	8	Wheels (X=Driven)	Front/Rear	2X/2
	9	Upright	Maximum Fork Height, Full Capacity in(mm)	
	10	- F · · 3···	Lift Height (Preferred Upright) in(mm)	
	11		Free Lift, Empty in(mm)	
	12	Upright Tilt	Back/Forward deg	
ns	14	Forks	Std. Fork Size (T X W X L) in(mm)	
lsic	15	Overall Dimensions	Length to Fork Face in(mm)	
ner	16		Width over Drive Axle in(mm)	
Ē	17		Height, Upright Lowered in(mm)	
<b>Basic Dimensions</b>	17		Height, Upright Extended (w/LBR) in(mm)	
ñ	18		Height, Overhead Guard	81.1 (2060)
	10	Turning Radius	Outside in(mm)	
	20	Load Center Distance	Center of Drive Axle to Fork Face in(mm)	
	22	Right Angle Stack Aisle	Add Load Length and Clearance in(mm)	
-	23	Stability	According to ASME/DIN	Yes
	24	Speeds	Travel Speed, Max w/Load mph(km/h)	
	24 25	Specus	Travel Speed, Max w/Load mph(km/h)	· · · ·
	25	Speed on grade, loaded	5% Loaded mph(km/h)	
buce		Speed off grade, loaded		
mai				
Performance	26	Lift Chanda Londod/Empty	1 \ /	
Per	26 29	Lift Speeds, Loaded/Empty Lower Speeds, Loaded/Empty	fpm(m/sec) fpm(m/sec)	
	29 30	Drawbar Pull, Maximum	With Load Ibs(N)	88/82 (0.45/0.42) I 84/79 (0.43/0.40) 3913 (17407)
	31	Diawbai Fuii, Maximum		
	32	Gradeability	Without Load Ibs(N) Maximum With/Without Load %	
-	34	Service Weight	lbs(kg)	
s	35	Axle Loading	With Load, Front Ibs(kg)	7985 (3740) + 8438 (3847)
Weights	36	ANIE LUdulliy		1071 (507) I 986 (463)
Vei	37			
1	38		W/O Load, Front Ibs(kg) W/O Load, Rear Ibs(kg)	3490 (1583) + 3417 (1550)
-	39	Tires (Standard)	Number, Front/Rear	2/2
	40	Thes (Stanuaru)	Size, Front in	
	40		Size, Rear in	
٦,	41	Wheelbase	in(mm)	
Chassis	41	Track	Front/Rear in(mm)	
اې	42 44	Ground Clearance	Minimum/at Center of Wheelbase in(mm)	
-	44 46	Service Brake		3.2 / 5.0 (82/127) Drum
	40	Parking Brake	Туре	Foot
	4/	Steering	Туре Туре	Hydrostatic
_	49	Engine	Manufacturer/Model	Mitsubishi 4G63
	49 51	LIIYIIIC	Rated Output HP(KW)@rpm	
line	21		Torque Ib-ft(Nm)@rpm	
Drive Line	52		Speed, Max. Governed rpm	
١	52		Cylinders/Displacement cu.in.(liters)	
	55	Transmission	Manufacturer/Type, Speeds F/R	Clark/Powershift, 1/1
_	54 57	Hydraulic Pressure	For Attachments psi(bar)	
_	57	Sound Level	Avg. at Operator's Ear Per ISO dB(A)	
	50		יריש. מו טעטומנטו א במו דכו ואט UD(A)	

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	1	Manufacturer		Clark	
c	2	Model	Manufacturer's Designation	C18CL	- •
General Information			in(mr		_
ũ	3	Load Capacity	lbs(k		_
f	4	Load Center	Fork Face to Load CG in(mr		
al	5	Drive Unit	Туре	LPG	
Jer	6	Operator Type	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rider-Seated	_
١.	7	Tire Type		Cushion	
	8	Wheels (X=Driven)	Front/Rear	2X/2	
-	9	, ,	Maximum Fork Height, Full Capacity in(mr		
	9 10	Upright			- <b>m</b>
			Lift Height (Preferred Upright) in(mr		_
	11	llaviaht Tilt	Free Lift, Empty in(mr		
s	12	Upright Tilt	Back/Forward d		
20	14	Forks	Std. Fork Size (T X W X L) in(mr		
en	15	Overall Dimensions	Length to Fork Face in(mr		
Ē	16		Width over Drive Axle in(mr		
	17		Height, Upright Lowered in(mr		
Basic Dimensions			Height, Upright Extended (w/LBR) in(mr	n) 169.5 (4305) ı 236.2 (6000)	
	18		Height, Overhead Guard	81.1 (2060)	
	19	Turning Radius	Outside in(mr	n) 72.5 (1840)	
	20	Load Center Distance	Center of Drive Axle to Fork Face in(mr	n) 14.7 (375) ı 14.9 (378)	
	22	Right Angle Stack Aisle	Add Load Length and Clearance in(mr	n) 87.2 (2215) ı 87.4 (2218)	
	23	Stability	According to ASME/DIN	Yes	<b>—</b>
	24	Speeds	Travel Speed, Max w/Load mph(km/	h) 10.5 (16.9)	_ <b>_</b>
	25		Travel Speed, Max w/o Load mph(km/		
		Speed on grade, loaded	5% Loaded mph(km/		
ŭ			10% Loaded mph(km/		
Pertormance			15% Loaded mph(km/		
ē	26	Lift Speeds, Loaded/Empty	I \		
Pe	29	Lower Speeds, Loaded/Empty	fpm(m/se		_
	30	Drawbar Pull, Maximum	With Load lbs(		
	31		Without Load Ibs(		
	32	Gradeability		% 38.6/24.1	_ ()
-	32 34	-			_
		Service Weight	lbs(k		
ht	35	Axle Loading	With Load, Front Ibs(k		
Weights	36		With Load, Rear Ibs(k		-
5	37		W/O Load, Front Ibs(k		_ /
_	38		W/O Load, Rear Ibs(k		_
	39	Tires (Standard)	Number, Front/Rear	2/2	
	40		· · · ·	in 18x6x12.125	_
			· · · · · · · · · · · · · · · · · · ·	in 14x4.5x8	
Chassis	41	Wheelbase	in(mr		
las	42	Track	Front/Rear in(mr		
כ	44	Ground Clearance	Minimum/at Center of Wheelbase in(mr	n) 3.2 / 5.0 (82/127)	
	46	Service Brake	Туре	Drum	
	47	Parking Brake	Туре	Foot	
		Steering	Туре	Hydrostatic	
	49	Engine	Manufacturer/Model	Mitsubishi 4G63	
וע	51		Rated Output HP(KW)@rp		
			Torque Ib-ft(Nm)@rp		
Drive Line	52		Speed, Max. Governed rp		$\neg$
5	53		Cylinders/Displacement cu.in.(liter		
	54	Transmission	Manufacturer/Type, Speeds F/R	Clark/Powershift, 1/1	
-	57	Hydraulic Pressure	For Attachments psi(ba		
-	57	Sound Level	Avg. at Operator's Ear Per ISO dB(		
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C20sCL D 129 (3285) i TSU 188 (4780) 4000 (2000) 24 (500) LPG Rider-Seated Cushion 2X/2 160 (4070) 129 (3285) i 188 (4780) 4.3 (110) i 57.9 (1471) 8/8 i 5/6 1.5x4x42 (40x100x1070) 82.7 (2103) i 82.9 (2106) 37.0 (940) 86.7 (2203) i 82.8 (2103) 169.5 (4305) i 236.2 (6000) 81.1 (2060) 73.5 (1866) 14.7 (375) i 14.9 (378) 88.2 (2241) i 88.4 (2244) Yes
4000 (2000) 24 (500) LPG Rider-Seated Cushion 2X/2 160 (4070) 129 (3285) + 188 (4780) 4.3 (110) + 57.9 (1471) 8/8 + 5/6 1.5x4x42 (40x100x1070) 82.7 (2103) + 82.9 (2106) 37.0 (940) 86.7 (2203) + 82.8 (2103) 169.5 (4305) + 236.2 (6000) 81.1 (2060) 73.5 (1866) 14.7 (375) + 14.9 (378) 88.2 (2241) + 88.4 (2244)
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Rider-Seated   Cushion   2X/2   160 (4070)   129 (3285) I 188 (4780)   4.3 (110) I 57.9 (1471)   8/8 I 5/6   1.5x4x42 (40x100x1070)   82.7 (2103) I 82.9 (2106)   37.0 (940)   86.7 (2203) I 82.8 (2103)   169.5 (4305) I 236.2 (6000)   81.1 (2060)   73.5 (1866)   14.7 (375) I 14.9 (378)   88.2 (2241) I 88.4 (2244)
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160 (4070) 129 (3285) 1 188 (4780) 4.3 (110) 1 57.9 (1471) 8/8 1 5/6 1.5x4x42 (40x100x1070) 82.7 (2103) 1 82.9 (2106) 37.0 (940) 86.7 (2203) 1 82.8 (2103) 169.5 (4305) 1 236.2 (6000) 81.1 (2060) 73.5 (1866) 14.7 (375) 1 14.9 (378) 88.2 (2241) 1 88.4 (2244)
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8/8   5/6   1.5x4x42 (40x100x1070)   82.7 (2103)   82.9 (2106)   37.0 (940)   86.7 (2203)   82.8 (2103)   169.5 (4305)   236.2 (6000)   81.1 (2060)   73.5 (1866)   14.7 (375)   14.9 (378)   88.2 (2241)   88.4 (2244)
1.5x4x42 (40x100x1070) 82.7 (2103) + 82.9 (2106) 37.0 (940) 86.7 (2203) + 82.8 (2103) 169.5 (4305) + 236.2 (6000) 81.1 (2060) 73.5 (1866) 14.7 (375) + 14.9 (378) 88.2 (2241) + 88.4 (2244)
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86.7 (2203) i 82.8 (2103)   169.5 (4305) i 236.2 (6000)   81.1 (2060)   73.5 (1866)   14.7 (375) i 14.9 (378)   88.2 (2241) i 88.4 (2244)
169.5 (4305) I 236.2 (6000)   81.1 (2060)   73.5 (1866)   14.7 (375) I 14.9 (378)   88.2 (2241) I 88.4 (2244)
81.1 (2060)   73.5 (1866)   14.7 (375) I 14.9 (378)   88.2 (2241) I 88.4 (2244)
73.5 (1866) 14.7 (375) + 14.9 (378) 88.2 (2241) + 88.4 (2244)
14.7 (375) i 14.9 (378) 88.2 (2241) i 88.4 (2244)
88.2 (2241) 1 88.4 (2244)
Voc
Tes
10.5 (16.9)
10.6 (17)
9.9 (15.9)
5.6 (9.0)
3.7 (5.9)
0 (0.54/0.61) I 100/114 (0.51/0.58)
32 (0.45/0.42) 1 84/79 (0.43/0.40)
3776 (16799)
1730 (7698)
35.6/22.6
6842 (3104) ı 7210 (3271)
9526 (4507) I 9984 (4172)
1316 (598) I 1226 (496)
2301 (1044) ı 2742 (1244)
4541 (2060) I 4468 (2027)
2/2
18x6x12.125
14x4.5x8
48.0 (1220)
31.1/32.4 (789/822)
3.2 / 5.0 (82/127)
Drum
Foot
Hydrostatic
Mitsubishi 4G63
39.5 (29) @ 2100
101 (137) @ 1800
2650
4 / 122 (2.0)
Clark/Powershift, 1/1
2030 (140)
80

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CLARK GEN2 SERIES cushion tire trucks are designed for long life in diverse applications such as bottling, manufacturing, recycling, warehousing and distribution. These LPG powered trucks provide very high levels of operator comfort, performance, reliability, ease of service and low noise and have set the ergonomic standard for operator compartment desian.

#### **Operator Comfort / Convenience**

**Operator Comfort / Convenience** These trucks feature the well-respected operator compartment design of the Gen2 series, providing a quiet, comfortable and spacious environment for operators of all sizes. The large floor area is free of obstructions, has a thick molded floor mat for comfort and noise abatement and is easily removable with no tools. The large open step area and grab handle on the left side provide convenient entry and exit. Foot controls feature a two-pedal inch-brake system with low height and short travel pedals. Left pedal is for service brakes only. Left foot parking brake is designed for hand or foot release. release.

Hydraulic control valve levers are cowl-mounted. Directional control is left hand fingertip operated and electrically actuated. Direction reversals are hydraulically cushioned. The vinyl safety seat with retractable seat belt and lateral restraint is proven retractable seat belt and lateral restraint is proven effective. Six inches (150 mm) of forward and backward adjustment, and separate back and seat cushions with molded bolsters for comfort. A tilt steering column locks in one of six positions and 38° total travel. The small diameter, thick section steering wheel is easily operated with one hand, and positioned slightly left of operator center for comfortable and productive operation with the left hand, while allowing right hand operation of the hydraulic levers. Clamshell hood, direct acting latch and gas strut allow easy access for daily inspections.

#### Instrument Panel

**Instrument Panel** The instrument panel features a full LED/digital display with visual and audible engine monitoring warnings. Functions being monitored include water temperature, engine oil pressure, transmission oil temperature, alternator charge, low LPG fuel and maintenance timer. The state-of-the-art instrument panel incorporates many protection devices for the drive train and electrical system. An automatic engine shutdown system continuously monitors engine oil pressure, engine coolant temperature and transmission oil temperature. Also included is a digital hour meter and neutral start switch. There are warning prompts for the seat belt, parking brake, ignition key, headlights and service engine light. The panel incorporates a diagnostic system to assist with fuel system maintenance and fault indication for the electrical system. the electrical system.

#### Engine

Featuring a Mitsubishi model 4G63, 2.0 liter (122 c.i.) 4-cylinder overhead cam engine with internal dynamic balancers for reduced vibration and an EPA 2004 compliant LPG fuel system with diagnostics. Camshaft and balancers are cog belt driven. Cast iron deep skirt block with aluminum cylinder head, 5-main bearing crankshaft, hydraulic valve lifters and electronic innition reduce maintenance requirements. This engine is well known for low maintenance and long service life.

**Engine Accessories/Capacities** Trucks are 12-volt negative ground incorporating a heavy-duty starter with anti-restart system and a 50 amp alternator with integral regulator. The battery is rated at 430 CCA at 0°F (-18°C). Clean air intake is achieved by a high capacity air cleaner with raised air inlet; an automatic dirt ejector and air restriction indicator provide extended service life. An optional supplemental safety element and pre-cleaner can easily be added without other changes. Electrical relays and automotive type blade fuses are conveniently located in a covered cowl mounted fuse panel. Moisture resistant electrical connectors fuse panel. Moisture resistant electrical connectors and fusible links are located outside the main harness for ease of access. Air and oil filters are easily accessible for service and located to prevent spillage. The hydraulic sump breather is remotely located to prevent spillage. All fluid level checks are easy to access. Crankcase capacity with filter is 4.0 qts. (3.8L). An LPG tank bracket with double straps is designed for 33.5 lb (15.2 kg) tanks.

#### Transaxle

Featuring a Clark Model TA-12 single-speed, full reversing, powershift transaxle. This rugged and proven Clark transaxle is an integral unit with high ratio, industrial torque converter, full-floating drive axles and drum/shoe brakes. Equipped with electrically controlled directional control, fully modulated clutch packs and a precise inching control system. Test ports, fluid check and full-flow oil filter are easily accessible. An integral oil cooler is located in the open core radiator.

#### Brakes

Self-energizing, hydraulic-actuated drum and shoe type service brakes. Two-pedal system with integral inching and brake pedal on the left side and service brake pedal on the right. Heavy cast iron brake shoes, drums and backing plates with openings for lining inspection and adjustment. All components are asbestos-free. The brakes are accessed by removing the wheel hub, axle shaft and brake drum. The left foot parking brake pedal actuates the The left foot parking brake pedal actuates the service brakes at both drive wheels, with electric transmission interrupt, and fingertip release. The transmission is disengaged when the parking brake is applied.

#### Hydraulics

**Hydraulics** A single gear driven pump provides fluid for hydraulic functions and steering. The priority-demand steering system conserves energy by supplying hydraulic fluid on demand-only basis. The hydraulic tank is integral with the truck frame with an in-tank screen, and the in-tank return line filter is easily serviced without spill. A quick-connect pressure port allows convenient pressure checks. All pressure fittings use O-ring face seals for positive sealing. Sump tank capacity is 6.3 gal. (24 L).

#### Steering

Steering is full hydrostatic with tilt wheel, utilizing a Steering is full hydrostatic with tilt wheel, utilizing a compact axle beam and integral double-acting steer cylinder. High strength spindle assemblies incorporate kingpins and double metal sealed bearings to provide rugged, easily serviced assemblies. The steering linkage uses spherical bearings, double shear link pins and grease fittings. Rubber isolation mounts support the axle, absorb shock and reduce noise.

#### Upright

Clark designed high visibility uprights are available as standard, Hi-Lo, and triple stage in a wide range of lift heights. Upright rails are all-roller construction with canted rollers to absorb both normal and side-thrust loads. The ITA Class II fork carriage includes six main rollers and additional side thrust rollers. The load backgrout provides evaluate the back here the load backrest provides excellent visibility. Hydraulic cushioning between stages aids in smooth, quiet operation. Self-lubricating trunnion bushings and simplified roller access improve serviceability. A hydraulic tilt lock valve to prevent cavitation; integral flow limiting valves prevent rapid carriage descent in the event of a line failure; and lowering control valves allow faster lowering speeds when empty or with light loads. Tilt cylinders incorporate self-aligning spherical bushings at both ends for extended seal life. Optional hose adaptations provide optimum visibility through the upright.

#### Additional Features

Additional features Single auxiliary valve, two headlights mounted on the overhead guard, and a 48" high load backrest. The auxiliary hydraulic flow can be easily adjusted at the main valve to suit various attachments. With the one-piece hood and quickly removeable floorplate, all routine maintenance checkpoints can be easily accessed. An open-core radiator with integral oil accessed and quited an automatic apprice abutdown accessed. An open-core radiator with integral oil cooler is standard. An automatic engine shutdown system protects driveline components. Hydraulic fittings are O-ring face seal. Color is Clark Green with non-glare matte black trim and white wheels. Tow pin located in the counterweight. The operator manual is permanently attached in the back of the safety seat

#### Available Equipment

Various options include wide drive tires, auxilliary valves and hose adaptations, sideshifters, hydraulic control options, stop/tail/backup lights, rear work light, turn signal lights, strobes, backup alarm, mirrors, convenience console, various seat options, air cleaner safety element, and pre-cleaner.

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C15/18/20sC Specification Sheet 59-894-0123 Printed in USA CC0805 your authorized CLARK dealer is:

