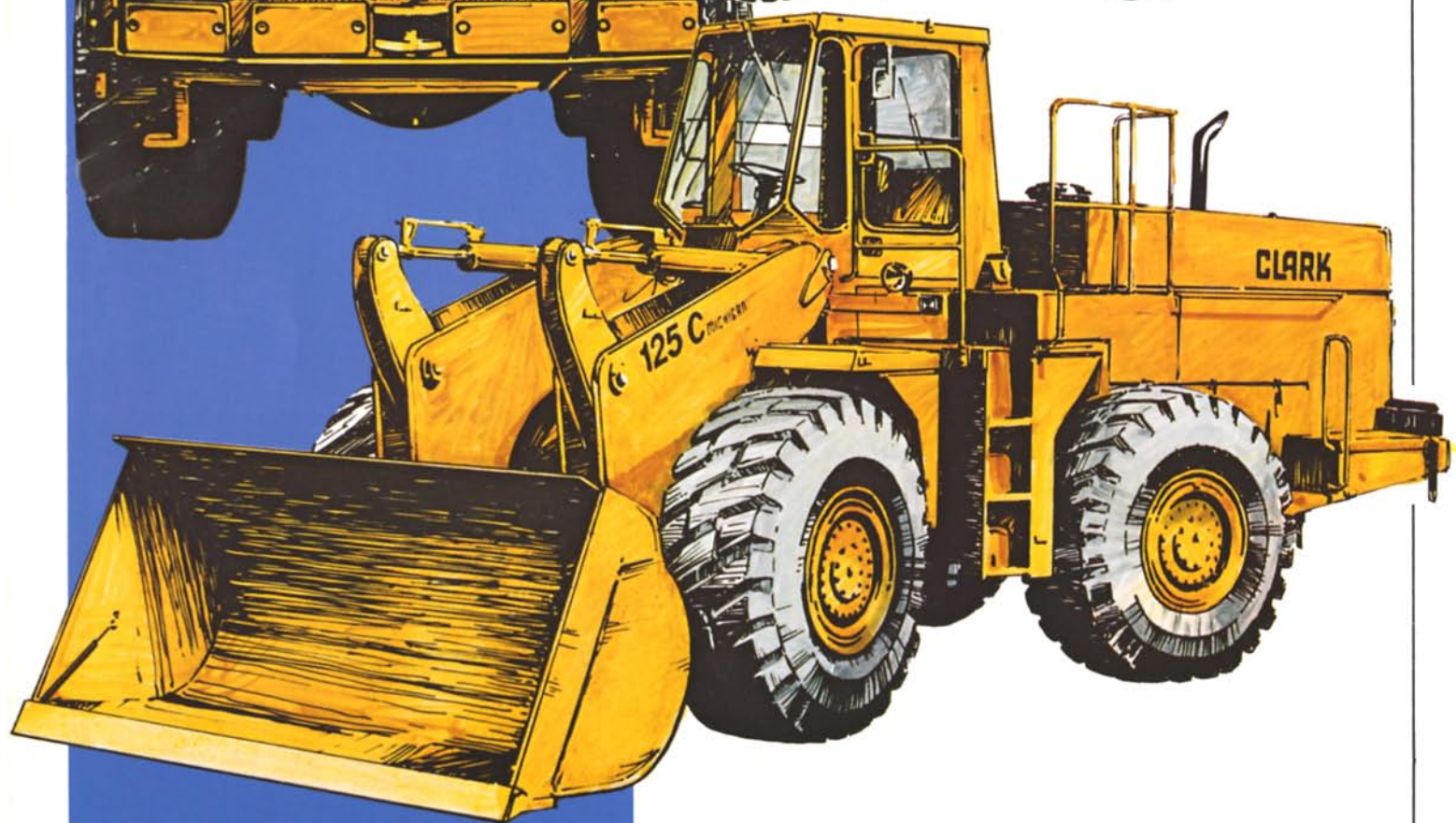


CLARK

125 C MICHIGAN



**ENGINE**

Make: Cummins Model: LT-10-225 HT
 Max. horsepower HP (KW)** 225 (169) at 2000 rpm
 Flywheel horsepower HP (KW)** 203 (152) at 2000 rpm
 Net horsepower KW (PS)* 217 (160) at 2000 rpm
 Max. torque Nm (lbft)** 1017 (750) at 1300 rpm
 Max. torque Nm (lbft)* 999 (731) at 1300 rpm
 Bore & stroke mm (in³) 125 x 136 (4.921 x 5.354)
 Number of cylinders 6
 Displacement L (in³) 10 (611)
 Electrical system (alternator) 24 V - 100 A

*DIN 70720 **SAE 816 b

**DRIVE TRAIN**

Torque converter: Clark high-efficiency industrial type; single-stage with 3.14: 1 torque multiplication ratio.

Transmission: Clark countershaft type powershift, with directional clutch modulation; four speeds forward, four speeds reverse.

Travel speeds*

1st	2nd	3rd	4th
5.6	10.8	18.1	30.9 km/h
3.5	6.7	11.2	19.2 mph

**Measured with 23.5-25, L2 tires.

Differentials: Clark limited slip, front and rear.

Axes: Heavy-duty Clark planetary design with single-piece cast steel housing. Front axle fixed, rear axle oscillates a total of 18.5°. Vertical wheel travel of 358 mm (14.1 in) with all wheels remaining on ground.

Planetary drives: Clark low-friction, roller bearing planetary in each wheel. Planetary units can be removed without removing wheels and brakes.

**TIRES**

Tubeless, nylon body, loader/dozer type: 23.5-25 (L-2)* Radial.

Other tires available:

23.5-25 (L-3; L-4; L-5)* Radial

23.5-25 (L-2; L-3; L-4; L-5) Diagonal 16-20 PR

26.5-25 (L-2)* Radial

26.5-25 (L-2) Diagonal 14-20 PR

**BRAKES (SAE J 1152) (ISO 3450)**

Service: Four wheel air-over-hydraulic, self-adjusting caliper discs. Application of left pedal also neutralizes transmission in forward only.

Secondary: Axle-by-axle system. Automatically actuated by low air pressure or manually applied through dash-mounted control; audible and visual alarm.

Parking: Mechanical on front transmission output shaft; 254.0 x 76.2 mm (10.0 x 3.0 in) shoe.

*** STANDARD EQUIPMENT**

INSTRUMENTS/GAUGES: Air Cleaner Restriction Indicator. Air pressure. Engine Coolant Temperature. Engine Oil Pressure. Hourmeter. Hydraulic Fluid Level Sight-Gauge. Torque Converter Oil Temperature. Voltmeter.

WARNING LIGHTS/AUDIBLE ALARMS: Air Pressure. Horn. Parking Brake. Steering pressure.

CAB, ROPS (SAE J 1040) (ISO 3471): Acoustical Lining. Air Ducting, built-in. Doors, lockable with self-locking sliding glass windows. Electrical System (24 V), circuit-breaker protected, prewired for optional accessories. Environmental Control; heater/defroster and pressurizer with three-speed blower fan. Floor Mats. Hand and Grab Safety Rails. Lights, interior, Blue and White, Safety Glass, tinted. Suspension seat, with seat belt (SAE J 386). Walk-in, Walk-out feature. Windshield Washer and Wiper, front and rear.

OPTIONAL EQUIPMENT

Air conditioner. Belly Guard, front frame. Belly Guard, rear frame. Bucket Teeth (8). Counterweight. Emergency Steering Kit, electric.

**STEERING SYSTEM**

Articulated frame; full hydraulic power steering.

Angle of Steer: Each direction 35°; total 70°.

Pump: Gear-type design, torque converter mounted; high volume at low engine rpm assures safe, responsive, steering. Rated output is 114 l/min (30 U.S. gpm).

Relief Pressure: 125 bar (1800 psi).

Cylinders: Two double-acting with chrome-plated piston rods. Bore and stroke: 88.9 x 515.6 mm (3.5 x 20.3 in).

**HYDRAULIC SYSTEM**

Closed and pressurized system with a capacity of 330 L (87 US gal.); oil supplied from sturdy plate-steel reservoir. Access hole in tank for easy cleaning; in tank magnet provides extra protection.

Boom controls: Valve has four positions: raise, hold, lower, float. Automatic kickout adjustable for any position between maximum boom reach and full lift height.

Bucket controls: Valve has three positions: rollback, hold, dump. Automatic bucket positioner adjustable to any desired loading angle.

Pump: Tandem gear-type design, torque converter mounted. Total pump output is 342.5 l/min. (90.5 U.S. gpm) - large section rated 297.5 l/min. (78.5 U.S. gpm) at high-idle and 190 bar (2755 PSI) and small section rated 45.5 l/min. (12 U.S. gpm) and 55 bar (800 PSI).

Valve: Power assisted, Bowden cable operated with built-in pressure relief valve. Mounted on front frame for easy access.

Relief Pressure: 190 bar (2755 PSI).

Cylinders: Two boom and two bucket, all double acting. Boom, bore and stroke: 152.4 x 998.2 mm (6.0 x 39.3 in).

Bucket, bore and stroke: 127.0 x 627.4 mm (5.0 x 24.7 in).

Filters: Full-flow 10 micron return filter (with 2 elements) located in hydraulic reservoir.

**HYDRAULIC SPEEDS**

	Sec.
Raising time (with load)	7.4
Dumping time (with load)	1.4
Lowering time (empty)	3.2
Total cycle	12.0

**SERVICE CAPACITIES**

	Litres	U.S. gal.
Cooling system	57.0	15.0
Crankcase	34.0	9.0
Torque converter & transmission	40.0	10.5
Front & rear axle differentials (each)	34.1	9.0
Front & rear wheel hubs (each)	5.7	1.5
Fuel tank	284.0	75.0
Hydraulic reservoir	288.0	76.0

ADDITIONAL STANDARD EQUIPMENT: Alternator (100 A.) Automatic Boom Kickout. Automatic Bucket Positioner. Air Dryer Batteries, maintenance free. Cab Access Steps and Handrails, left and right sides (SAE J 185). Cast Aluminium Boom and Bucket Control Levers, console mounted. Drawbar, with pin. Hood Side Panels. Lifting Lugs. Lights, work 2 front, 2 rear. Limited Slip Differentials, front and rear. Neutral Start Feature. Quick Connect Hydraulic Pressure Test Ports. Quick Start, engine. Rearview Mirrors, exterior. Secondary Brake System, low air pressure actuated. Service Platforms. Transmission Declutch. Fenders, front. Transmission Modulation. Vandalism Lock, provision for Batteries, Engine Coolant, Fuel, Hydraulic Oil, Torque Converter/Transmission Oil.

*Standard equipment will vary depending upon regulations and requirements for country of destination.

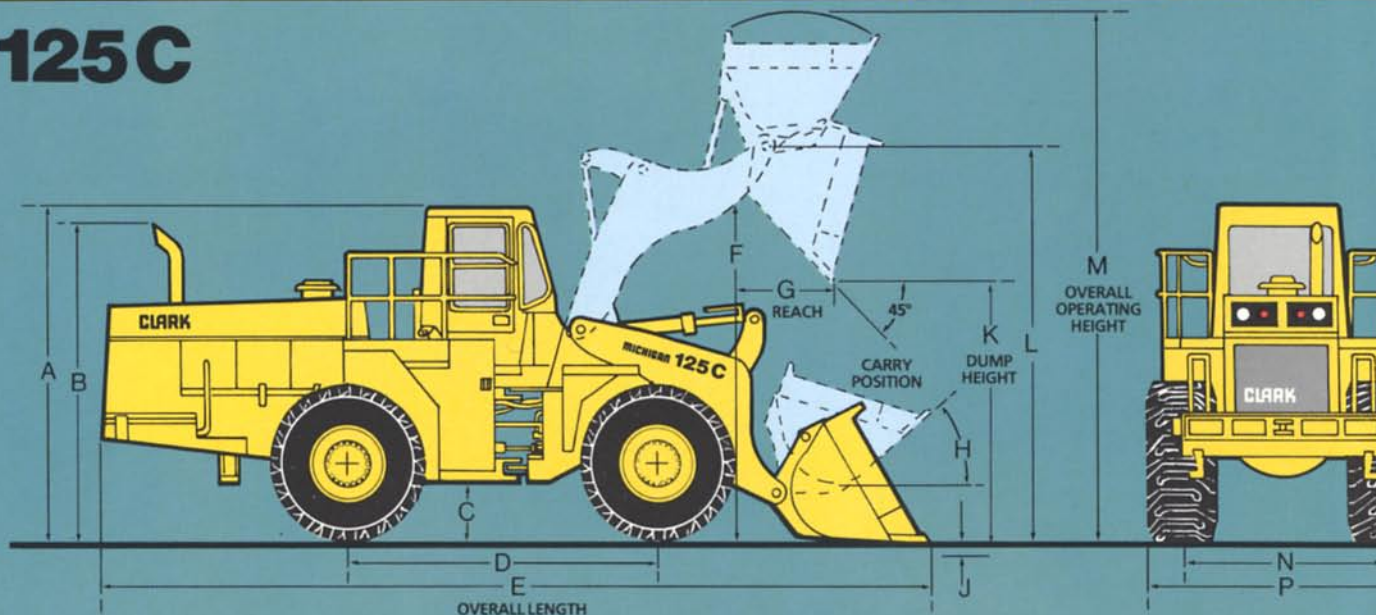
Reverse Alarm (SAE J 994). ROPS Canopy (SAE J 1040) (ISO 3471) Three-Spool Valve, Piping and Controls.

† Operating Data (with 23.5-25, L-2, L-3 tires)

Data given below which conform to applicable standards recommended by the Society of Automotive Engineers, SAE loader ratings J732 and J742, are denoted in the text by ▲. Changes in standard configuration may change machine dimensions or operating or operating data. Refer to Supplemental Operating Data.

Bucket Type	Spade Nose Rock	Straight Edge Rock	General Purpose	Material Handling	Light Material	
▲ Capacity, Rated (heaped)	3.1 4.0	3.1 4.0	3.4 4.5	3.8 5.0	4.6 6.0	m ³ yd
▲ Rated (struck)	2.60 3.39	2.60 3.39	2.90 3.78	3.21 4.20	3.9 5.09	m ³ yd
▲ Cutting Edge Width	2972 117"	2972 117"	3048 120"	3050 120"	3645 143.5"	m in.
▲ Dump Height at Full Lift and 45° Discharge Angle*	2808 9'3"	3017 9'11"	2930 9'7"	2847 9'5"	2847 9'5"	m ft.
▲ Reach at Full Lift and 45° Discharge Angle*	1150 3'9.3"	957 3'1.7"	1080 3'6.5"	1133 3'8.6"	1133 3'8.6"	m ft.
▲ Reach at 2134 mm (7') Height and 45° Discharge Angle*	1681 5'6.2"	1600 5'3"	1615 5'3.6"	1626 5'4"	1626 5'4"	m ft.
▲ Overall length	8518 27'11.4"	8276 27'2"	8340 27'4.4"	8440 27'8.3"	8440 27'8.3"	m ft.
▲ Overall Operating Height*	5334 17'6"	5334 17'6"	5435 17'10"	5435 17'10"	5435 17'10"	m ft.
▲ Clearance Circle (bucket in carry position)	14.93 48'11.8"	14.93 48'11.8"	14.95 49'00"	15.00 49'2.7"	15.59 49'5"	m ft.
▲ Breakout Force	151.60 34,069	184.77 41,523	174.66 39,251	166.63 37,446	166.63 37,446	kN lb
Effective Digging Force	233.28 52,425	256.08 57,549	248.88 55,930	243.32 54,681	243.32 54,681	kN lb
▲ Static Tipping Load**, Straight	14,625 32,248	14,645 32,292	14,660 32,325	14,620 32,237	14,261 31,445	kg lb
▲ Full (35°) Turn	13,175 29,051	13,193 29,091	13,207 29,121	13,170 29,040	12,848 28,330	kg lb
▲ Operating Weight**, Total	20,060 44,232	20,040 44,188	19,720 43,483	19,730 43,505	19,975 44,045	kg lb

125C



Machine Dimensions*

Tire Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
23.5-25 (L-2) (L-3)	3440 11'3.4"	2880 9'5.4"	360 1'2.2"	3251 10'8"	†	3410 11'2.3"	†	52°	188 7.40"	†	4065 13'4"	†	2235 7'4"	28 9'
23.5-25 (L-4)	3483 11'5"	2923 9'7"	403 1'3.9"	3251 10'8"	†	3453 11'4"	†	52°	145 5.7"	†	4108 13'5.7"	†	2235 7'4"	28 9'
23.5-25 (L-5)	3493 11'5.5"	2933 9'7.45"	413 1'4.3"	3251 10'8"	†	3463 11'4.3"	†	52°	135 5.3"	†	4118 13'6.1"	†	2235 7'4"	28 9'
26.5-25 (L-2)	3496 11'5.6"	2936 9'7.6"	416 1'4.4"	3251 10'8"	†	3466 11'4.5"	†	52°	132 5.2"	†	4121 13'6.2"	†	2235 7'4"	28 9'

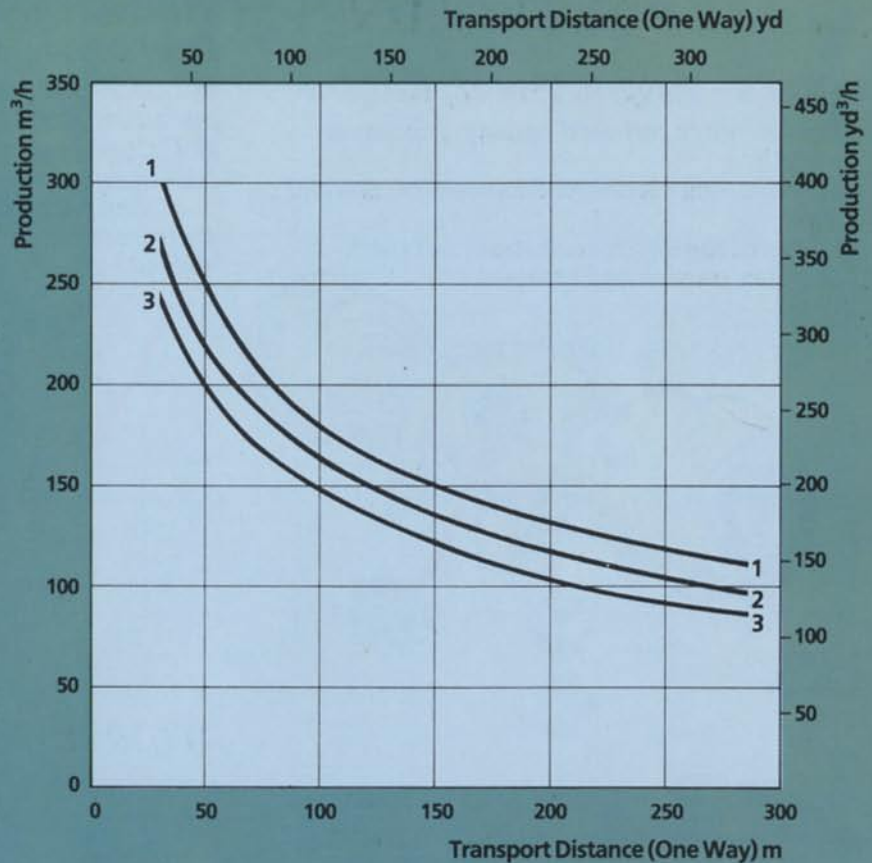
*See Operating Data.

Production

Buckets

1 : 3.8 m³, 5.0 yd³
 2 : 3.4 m³, 4.5 yd³
 3 : 3.1 m³, 4.0 yd³

Production based on:
 Loading shot rock
 60 minute hour
 100% bucket fill factor
 0% grade
 4% rolling resistance



Supplemental Operating Data

*Dimensions: change with tires other than 23.5-25, L-2; L-3, add or subtract as applicable:

	23.5-25(L-4)	23.5-25 (L-5)	26.5-25(L-2)
Vertical, mm(in)	+ 43.2 (1.7)	+ 53.3 (2.1)	+ 55.9 (2.2)
Horizontal, mm(in)	- 27.9 (1.1)	- 33.0 (1.3)	- 63.5 (2.5)

**Operating Weight: is approximate and includes bucket shown plus ROPS cab.

A change in tire size or the addition (or removal) of optional equipment, attachments, counterweighting will affect both operating weight and tipping loads. These changes are shown below for certain selected items.

	Change in Operating Weight		Change in Static Tipping Load Full Turn	
	kg	lb	kg	lb
Optional Counterweight:	182	401	385	849
Bucket Teeth (8)	52	115	- 56	- 123
ROPS Cab (removal)	- 533	- 1175	- 450	- 992

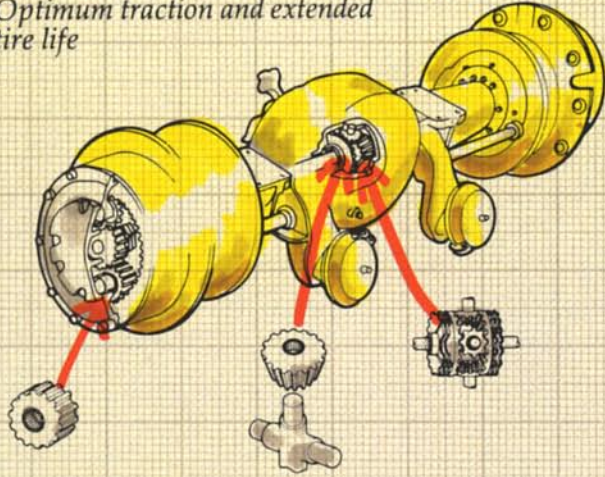
Tire Options	Change in Operating Weight		Change in Static Tipping Load Straight		Change in Static Tipping Load Full Turn	
	kg	lb	kg	lb	kg	lb
23.5-25, 16 PR (L-2)	- 192	- 423	- 142	- 313	- 128	- 282
23.5-25, 16 PR (L-3)	0	0	0	0	0	0
23.5-25, 16 PR (L-4)	480	1058	354	780	318	701
23.5-25, 20 PR (L-2)	- 128	- 282	- 95	- 209	- 85	- 187
23.5-25, 20 PR (L-3)	44	97	32	70	29	64
23.5-25, 20 PR (L-4)	516	1138	380	838	342	754
23.5-25, 20 PR (L-5)	928	2046	684	1508	615	1356
26.5-25, 14 PR (L-2)	200	441	147	324	132	291
26.5-25, 20 PR (L-2)	304	670	224	494	202	445
23.5-25, (L-2)* Radial	0	0	0	0	0	0
26.5-25, (L-2)* Radial	388	856	286	631	257	567

40 mm
 .8" ft.in.
 80 mm
 .4" ft.in.
 80 mm
 .4" ft.in.
 20 mm
 .4" ft.in.

CLARK POWERTRAIN

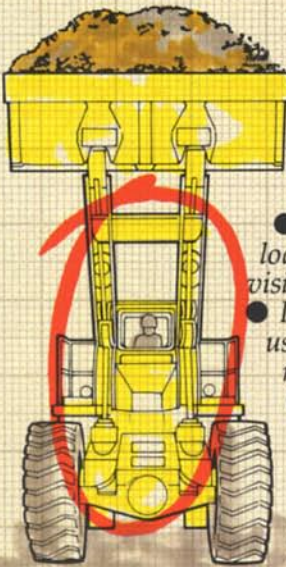
AXLES – Rugged, Proven, Reliable

- Single-piece cast-steel housing: Maximum strength
- Needle-roller bearings: Minimum friction and wear
- Limited slip differentials (front and rear): Optimum traction and extended tire life



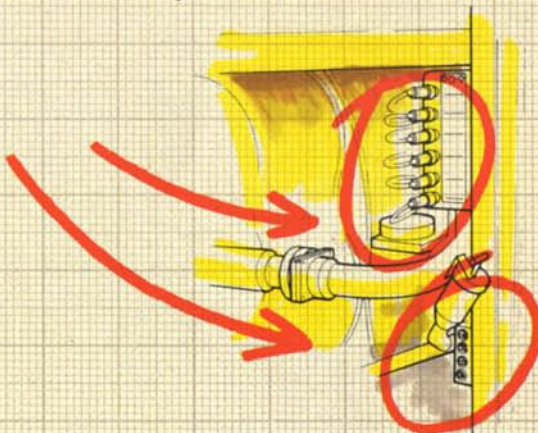
BOOM – Strong, Solid, Durable

- Rugged double-plate construction: Maximum rigidity and protection of components
- Crosstube location: Even load distribution and optimum visibility
- In-line linkage: Optimum use of hydraulic forces, minimum torsion on boom
- Trunnion-mounted cylinders: Maximum speed and lifting capacity to full height, minimum piston rod flexing



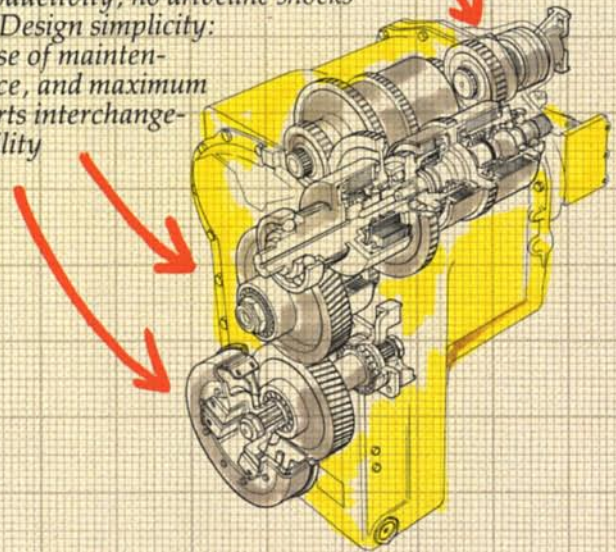
MAINTENANCE – Quick, Easy, Convenient

- Centralized grease fittings: Convenient service of difficult lubrication points
- Quick-connect hydraulic pressure check ports



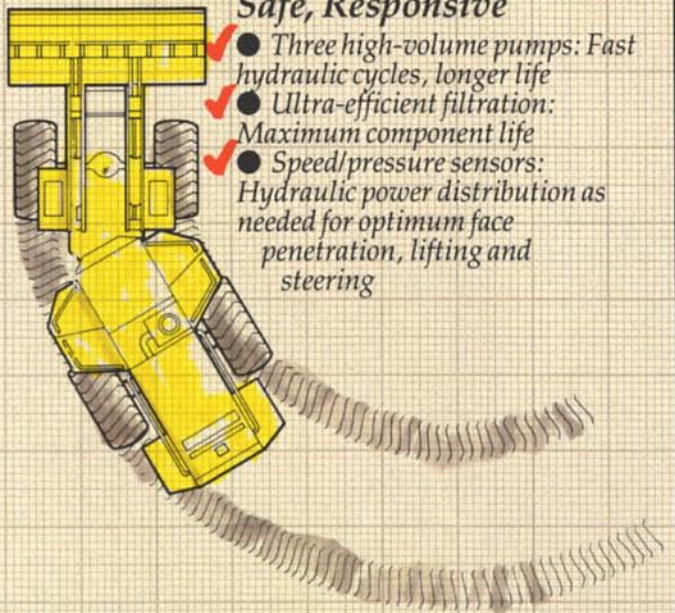
TRANSMISSION – Smooth, Simple, Dependable

- Clutch modulation: Smooth shifts, increased productivity, no driveline shocks
- Design simplicity: Ease of maintenance, and maximum parts interchangeability



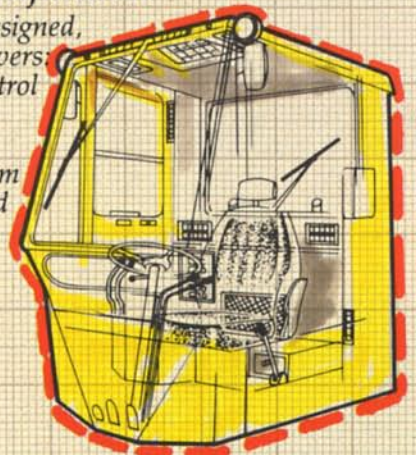
HYDRAULICS – Cycle-sensitive, Safe, Responsive

- Three high-volume pumps: Fast hydraulic cycles, longer life
- Ultra-efficient filtration: Maximum component life
- Speed/pressure sensors: Hydraulic power distribution as needed for optimum face penetration, lifting and steering



OPERATOR COMPARTMENT – Quiet, Safe, Comfortable

- Ergonomically-designed, low-effort control levers: Precise machine control without fatigue
- Sound-insulated ROPS cab: Maximum operator comfort and safety
- Color-coded instrumentation: Convenient, positive monitoring



CLARK

Clark Michigan Company Quality Assurance Policy

The policy of the Clark Michigan Company is to achieve and maintain a reputation for leadership in the quality of its products and product services. The objective of Clark Michigan Company is to produce and market construction machinery equipment and supporting services that equal or exceed its competitors' quality, and satisfy customer needs and expectations. Clark Michigan Company will also assure that all materials, parts, assemblies or sub-assemblies supplied by other Clark divisions or by outside vendors meet the set forth quality requirements.

The Clark Michigan Company is structured to develop, implement and monitor a quality assurance system covering engineering, testing, manufacturing and services to assure a quality product, supported by skilled trained personnel and high parts availability.

The quality assurance system is constantly reviewed, revised and reissued to assure that Clark Michigan Company and its dealer network continue to provide the highest standards of quality.



Illustrations of machines used in this publication may include optional equipment.
Specifications subject to change without notice or obligation.

CLARK **Construction
Machinery
Group**

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