

## SPECIFICATIONS FOR MODEL ST - 8A

4-WHEEL DRIVE SCOOPTRAM®  
SPECIFICATION NO: 625487  
AUGUST, 1988

CAPACITY:	lbs	(kg)
Static Tipping Load		
Straight Ahead	61,000	(27,500)
Breakout Force	38,000	(17,250)
Hydraulic Breakout Force	50,000	(22,650)
Tramming Capacity	27,000	(12,250)

### BUCKET (STANDARD):

Capacity, S.A.E. Rating		
Nominal Heaped	8.0 cu. yds	(6.1 cu. m)
Struck	6.6 cu. yds	(5.1 cu. m)
Boom Raising Time	6.2 seconds	
Boom Lowering Time	5.3 seconds	
Bucket Dump Time	6.0 seconds	

### VEHICLE SPEEDS, LOADED:

Forward or Reverse				
Gear	1st	2nd	3rd	4th
Speed in mph	3.4	6.2	11.5	19.7
Speed in km/h	5.5	10.0	18.5	31.7

### GRADEABILITY: SEE PERFORMANCE CURVE

### ENGINE:

Deutz Diesel (4-Cycle),	Model: F12L-413FW
MSHA Sch. 24 Power Rating @ 2300 rpm:	277 hp
Maximum Torque @ 1500 rpm	674 ft-lb (914 N-m)
Number of Cylinders	12 In "V"
Displacement	1168 cu. in.(19.1L)
Cooling	Air
MSHA Ventilation	24,000 cfm (679 cu. m/min)

### STARTING SYSTEM:

Electric	24 Volt
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### TORQUE CONVERTER:

Single Stage, Clark	C-8,000 Series
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### TRANSMISSION:

Full Power Shift, 4 Speeds Forward and	
4 Speeds Reverse, Clark	5,000 Series

### AXLES:

Spiral Bevel Differential, Full-Floating	
Planetary Wheel End Drive	
Clark	75,000 Series

### STANDARD BRAKES:

Service: 4-Wheel, Hydraulic Applied, Heavy Duty	
Disc Brake, Size: 18.75" x 1/2"	(476 mm x 13 mm)
Parking: Spring Applied, Hydraulically Released	
Driveline Disc	

### TIRES:

Tubeless, Nylon, Smooth Tread Design,	
For Underground Mine Service, on Demountable rims.	
Tire Size, Front & Rear: 26.5 x 25, 26 Ply, L-5S	

### STEERING:

Articulated Hydraulic Power Steering	
Pilot Operated Monostick Control	
Turning Angle	85° (42-1/2° each way)
System Pressure	2000psi

### HYDRAULIC SYSTEM:

Cylinders, Double Acting with Chrome Plated Stems	
Steering Cylinders	(2) Diameter: 6.0" (152 mm)
Hoist Cylinders	(2) Diameter: 8.0" (203 mm)
Dump Cylinder	(1) Diameter: 9.0" (228 mm)
Pumps, Heavy Duty Gear Type	
Dump & Hoist	135 gpm (511 l/m) @ 2300 rpm
Steering	44 gpm (167 l/m) @ 2300 rpm
Filter:	Suction Line 25 Micron

TANK CAPACITIES:	U.S. Gal	(Liters)
Fuel	138	(522)
Hydraulic Oil	137	(519)

### OSCILLATION:

Rear Axle, Trunion Mounted, Synthane Bushings	
Degree of Oscillation	Total 20°

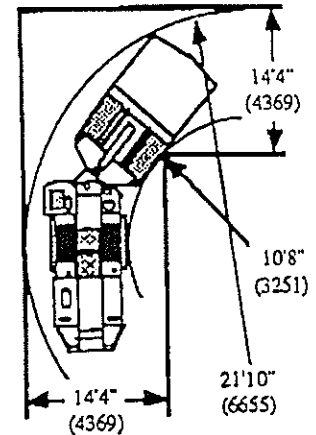
EXHAUST CONDITIONER:	Catalytic Purifier
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### OPERATOR'S ARRANGEMENT:

Side Seating For Bi-Directional Operation and	
Maximum Visibility.	

WEIGHT: (APPROXIMATE)	lbs	(kg)
Operating (Empty Vehicle)	67,250	(30,500)

MANUFACTURED WITH AN MSHA TITLE 30, PART 32, (SCHEDULE 24) CERTIFIED ENGINE.



NOTES: • DIMENSIONS INSIDE PARENTHESES ARE SHOWN IN MILLIMETERS.  
• HEIGHT OVER THE OPERATOR IS ADJUSTABLE DEPENDING ON APPLICATION.  
• ALL HEIGHT DIMENSIONS ARE BASED ON A TIRE RADIUS OF 34.4" (874 MM)

# STANDARD SPECIFICATION

- Engine Hour/Service Meter
- Engine Oil Pressure Gauge
- Engine Temperature Gauges
- Engine Low Oil pressure/High Temperature Audio-Visual Alarm
- Engine Primary and Secondary Fuel Filters
- Engine Oil Filter
- Dry Type Aircleaners
- Converter Oil Cooler
- Converter Temperature gauge
- Air Pressure Gauge

Modulated Shift Transmission  
Clutch Pressure Gauge  
Transmission Oil Filter with Indicator  
NoSPIN® in Rear Axle  
Dual Circuit Service Brake System  
Hydraulic System Cooling  
Articulation with Adjustable,  
Self-Aligning Thrust Bushings  
Fully Stabilizing Bucket

- Two Batteries
- Alternator
- Lights, Halogen (8 - 4 Front & 4 Rear)
- Voltmeter
- Battery Isolation Switch
- Neutral Start Protection
- Automatic Brake Application with Low  
Engine/Converter Oil Pressure, and  
Low Air System Pressure
- Fuel Shut-Off Valve
- Swivel Hinge Lock Arm
- Electric Horn

NOTE: The manufacturer reserves the right to change the specifications and/or design of this vehicle at any time without notice.