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TECHNICAL DATA

CABIN — The driver cabin is extremely comfortable and the outstanding visibility allows the driver to have full control over the entire vehicle. Behind the driver seat a second person can be accommodated on an emergency seat. The cabin is heated by a heat exchanger unit connected to the engine cooling system, or cooled by a variable speed ventilator blowing fresh air. The seat is extremely comfortable, universally adjustable and mounted on hydraulic shock absorbers.

DUMP BODY — Is of a particularly strong construction. The bottom of the body consists of two steel sheets (U.S.S. 11a), an upper one 10 mm thick and a lower one 8 mm thick. These two steel sheets are divided by a 40 mm thick hardwood interspace. The entire body is strongly framed with resistant U-shape folded steel. Capacity struck 11 m³ (14.4 cu.yd.), heaped (SAE) 13 m³ (17 cu.yd.)

HOIST — A single hydraulic 1-stage jack, with auxiliary tank is acting on the articulated joint system which eliminates the dead angles during raising and lowering phases. Moreover the system allows a perfect guidance of the dump body during its movement, permitting tipping on side slopes. It is mounted on large bronze bushings which assure a perfect operation. The tipping of the body can also take place while the vehicle is running. The gear type hydraulic pump is designed for a capacity to elevate the full loaded dump body to 65° in 15" only.

SUSPENSIONS — They consist, on the front as well as on the rear, of two single semi-elliptic front floating springs with rubber end dampers. The axles are fixed to the chassis frame with radius rods having silentblocks on each end.

BRAKES — The brake pedal activates the pneumatic service brake on the four wheels. Also the emergency brake is pneumatically activated by the manual control, located on the steering column, also used for brake release during departure on a slope. The parking brake is a mechanical disc type fixed to the transmission output shaft.

ACCESSORIES — Low temperature starting aid, cabin heater. Dash-board instruments: speedometer, air pressure manometer, engine oil pressure gauge, water thermometer, hour-meter, starter button, main switch, emergency engine shut off, windshield wiper, climatic recostat, cabin light and pilot lights for low air pressure, alternator charging and fuel supply.

| | |
|------------------------|---------------------------------------|
| ENGINE | General Motors type 6/71 model 6094/N |
| Operation | 2 stroke Diesel |
| Cylinders | 6 in line |
| Bore and stroke | 106 x 127 mm |
| Total displacement | 6090 cm ³ |
| Max. power at 2300 rpm | 265 HP |
| Max. torque | 89.3 mkg |
| Compression ratio | 16.7 : 1 |

CLUTCH — Single-plate with ample dimensions.

GEAR BOX — Z.F. 6 forward gears and one reverse gear.

AXLES — The front axle is a high resistant tubular type. The rear axle has been built particularly strong to support heaviest strain and incorporates a double reduction carrier with a ratio of 6.29 : 1. The wheels are mounted on two roller bearings of large dimensions purposely chosen to guarantee a long service life. The wheels incorporate a planetary final reduction with a 3 : 1 ratio. Total drive axle reduction 18.87 : 1.

STEERING SYSTEM — Hydraulic type servo steering ISI-REIS-1150 with circulating spheres and an auxiliary operating cylinder. The hydraulic pump is flanged directly to the engine.

ELECTRICAL SYSTEM — Tension 12V. Power source: 3 batteries of 105 Ah each (total 315 Ah). Alternator of 300 W - 12V with automatic regulation. Cranking motor with solenoid and starter switch.

FUEL TANK — With lock cap and fuel supply seeding unit. Capacity 257 lt.

TIRES — Tubeless type:

| | |
|-------|------------------------|
| Front | single 14.00-25 24 ply |
| Rear | double 14.00-25 24 ply |

WEIGHTS

| | |
|-----------------|------------------|
| Tare | 13.750 kg |
| Tare front axle | 5.000 kg |
| Tare rear axle | 8.150 kg |
| Total weight | 35.750 kg |
| Payload | 22.000 kg |
| Axis load: | front: 10.000 kg |
| | rear: 25.750 kg |

PERFORMANCES

Speeds in the various gears at 2100 rpm engine speed:

| Gears | Ratio | Speed in km/h |
|---------|----------|---------------|
| 1st | 5.40 : 1 | 5 |
| 2nd | 3.45 : 1 | 7.83 |
| 3rd | 2.26 : 1 | 12 |
| 4th | 1.45 : 1 | 18.65 |
| 5th | 1 : 1 | 27 |
| 6th | 0.8 : 1 | 45 |
| Reverse | 5 : 1 | 5.40 |

Max. gradeability: 35%.

GENERAL DIMENSIONS

| | |
|------------------|---------|
| Front axle track | 2080 mm |
| Rear axle track | 1950 mm |
| Wheelbase | 3713 mm |
| Overall width | 2680 mm |
| Overall length | 6920 mm |

Turning circle on front wheel track:

| | |
|-----------------|---------|
| Right-hand turn | 17.75 m |
| Left-hand turn | 19.00 m |

ASTRA

Special Vehicle Constructions

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