

QUENTIN CURRIE

VALMET

118-4



VALMET 118-4 TRACTOR

economy and power for y

Due to its sturdy construction, excellent trustworthiness, and low maintenance costs, the engine of the **Valmet 118-4** tractor meets the requirements for any hard duties.

The **Valmet 118-4** tractor is equipped with a synchromesh gearbox with 12 speeds forward and 4 reverse. Owing to this the tractor speed can be adjusted to any kind of work or implement.

The fuel tank has a filling capacity of 155 liters that provides the **Valmet 118-4** tractor with an autonomy no other tractor can surpass in its category. The **Valmet 118-4** tractor was projected to work from dawn to dusk. Its fuel system was designed to make tractor operation easier.

One of the innovations in the **Valmet 118-4** tractor is its diaphragm spring-loaded clutch.

Consequently, it means less moving components, less friction and wear. A constant and uniform loading on the clutch makes the disc more durable.

Valmet 118-4 is the first agricultural tractor in Brazil, in its category, with front wheel drive and a hydraulic-hydrostatic steering system. This steering system facilitates tractor operation, does not permit wheel vibration and reduces tire, axle spindle and terminal wear.

The hydraulic lifting system is driven directly by the engine, independent from the transmission. The 3-point hitch has a lifting capacity of 2500 kgf (25000N) according to Standard ISO 730.

The hydraulic system has an independent reservoir, and one filter on the suction side and a fine filter

on the pressure side ensure safety and durability to its components.

The electrical system in the **Valmet 118-4** tractor is of 12 volts, with negative to chassis. A single battery is easily accessible and isolated in its case from the heat generated by the engine.

The instrument panel includes a mechanically driven tractometer, a temperature gauge, a fuel gauge, and warning lights for engine oil pressure, high headlights parking brake, battery charge, and P.T.O. clutch, when equipped with the double clutch.

Whenever your **Valmet 118-4** tractor needs servicing, you can count on your Valmet Dealer. All service is promptly carried out by Factory trained personnel, and with original spare parts approved by Valmet Quality Control.



The **Valmet 118-4** tractor can be equipped optionally with up to 4 control valves for implements with remote control.

DR our fields

| MARCA | VELOCIDADES | | km/h |
|-------|-------------|----|------|
| L | 1 | 2 | 3 |
| | 2 | 3 | 4 |
| | 3 | 4 | 5 |
| | 4 | 5 | 6 |
| M | 1 | 3 | 4 |
| | 2 | 4 | 5 |
| | 3 | 5 | 6 |
| | 4 | 6 | 7 |
| H | 1 | 6 | 8 |
| | 2 | 8 | 10 |
| | 3 | 10 | 12 |
| | 4 | 12 | 14 |
| R | 1 | 14 | 16 |
| | 2 | 16 | 18 |
| | 3 | 18 | 20 |
| | 4 | 20 | 22 |

- L - Low speeds for heavy works.
- M - Medium speeds for normal agricultural duties.
- H - High speeds for light transport operations.
- R - Reverse speeds for rapid maneuvers.



In field preparation the Valmet 118-4 is exceptionally efficient.



The front wheel drive axle: a sturdy and compact construction with high ground clearance.



The first tractor in Brazil with rigid chassis, front wheel drive and big front wheels.



With hydraulic or simple implements the Valmet 118-4 tractor prepares any type of soil.

VALMET 118-4 TRACTOR

ENGINE

| | |
|-------------------------------|---|
| Engine | MWM D229-6TV |
| Type | Direct injection, diesel engine |
| Cylinders | 6 vertical cylinders in line, wet replaceable cylinder liners |
| Cylinder bore | 102 mm |
| Stroke | 120 mm |
| Engine displacement | 5883 cm ³ |
| Compression ratio | 16.6:1 |
| Max. engine power at 2300 rpm | 86 kW (118 hp) |
| Max. Torque at 1400 rpm | 402 Nm (41,0 mkgf) |

TIRES

| | |
|-------|--------------------------------|
| Front | 14.9/13-26 R1 |
| Rear | 18.4/15-34 R1 23.1/18-26 R2 |

PRINCIPAL DIMENSIONS

| | |
|---|----------------------------|
| Overall length | 439 cm |
| Height at top of steering wheel | 198 cm |
| Total width (with minimum tread) | 207 cm |
| Wheel base | 267 cm |
| Ground clearance | 40 cm |
| Front wheel tread (adjustable) | 176-186-202-212 cm |
| Rear wheel tread (adjustable) with tires 18.4/15-34 | 160-170-180-190-200-210 cm |
| Turning radius (without brakes) | 720 cm |
| Turning radius (with brakes on) | 510 cm |

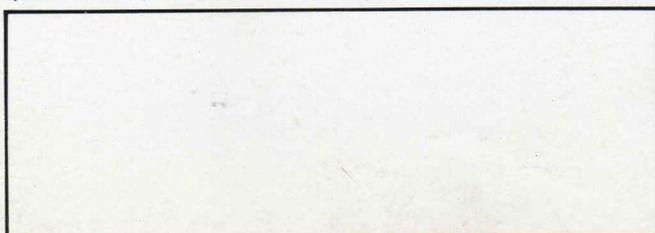
WEIGHTS

| | |
|---|---------|
| Operating weight (without ballast or accessories) | 4340 kg |
| Operating weight (with total ballast and accessories) | 7250 kg |
| Shipping weight (without ballast or accessories) | 4140 kg |

CAPACITIES

| | |
|---------------------------------------|------------|
| Fuel tank | 155 liters |
| Gearbox/differential | 48 liters |
| Engine oil sump | 15 liters |
| Cooling system | 16 liters |
| Final drive (each side) | 9,5 liters |
| Hydraulic system | 27 liters |
| Primary air filter oil cup | 2 liters |
| Brake and clutch fluid reservoir | 0,5 liter |
| Front axle differential | 9,5 liters |
| Front axle planetary gear (each side) | 1,5 liters |

Specifications subject to change without previous notice.



INJECTION SYSTEM

Fuel filtering with precleaner and double filter of 1/2 liter. Piston type BOSH injection pump, with centrifugal RSV governor. BOSH injection nozzles.

COOLING SYSTEM

Water-cooled, pressurized, with radiator, water pump, thermostat and a six-blade fan.

ELECTRICAL SYSTEM

12 volts, negative to chassis. Battery of 12 volts, with a capacity of 135 Ah. BOSH alternator and voltage regulator. BOSH 3 kW starter.

AIR FILTERING SYSTEM

Primary filter: oil-bath air filter with cyclone type sediment precleaner and dust cup. Secondary filter: dry, with paper element and restriction indicator.

CLUTCH

Single

Dry - single disc, diameter 330mm, spring-loaded diaphragm

Double (optional)

Dry, two discs, diameters 310/310mm, spring-loaded diaphragm

TRANSMISSION

Gearbox

Constant synchromesh, 12 forward speeds and 4 reverse. Synchronized in each group of four.

Differential

Crown and pinion with 8:41 reduction, 4 pinions and 2 planetaries with mechanically operated differential lock.

FINAL DRIVE

Parallel gear reductions at extremities of rear axle, reduction ratio 11:53.

FRONT AXLE

Front wheel drive crown and pinion, reduction ratio 10:40, 4 pinions and 2 side bevel gears. Final reduction ratio 4,5:1.

HYDRAULIC SYSTEM

Gear-driven pump, directly actuated by engine, supply up to 36 l/m at 200 bar (200 kgf/cm²). Position and traction controls. Manual control for lowering speed of implement.

3-POINT HITCH

Category II. Adjustable stabilizers. Lifting capacity 25000 N (2500 kgf) according to Standard ISO 730.

P.T.O.

Standard 35 mm (1 3/8") 6 spline shaft, and 44mm (1 3/4") 6 spline shaft for heavy works. 540 rpm at 1747 rpm of engine. Totally independent, when equipped with double clutch. Optional: second P.T.O. speed with 1000 rpm at 2270 rpm of engine.

BRAKES

Dry disc type. Hydraulic service brake. Mechanical parking brake.

STEERING SYSTEM

Hydraulic-hydrostatic steering.

INSTRUMENTS

Mechanically driven tractometer, including tachometer and running time indicator. Electrical fuel gauge. Electrical temperature gauge. Warning lamps for engine oil pressure, battery charge, high headlights, parking brake, and P.T.O. clutch (tractor equipped with double clutch).

DRAWBAR

Drawbar with lateral and longitudinal adjustments. Support for U-hitch coupling.

VALMET

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