

The real answer as the all purpose agricultural tractor

Zetor

5911
5945

59hp
44.3Kw



This Zetor 5945 model was the 2000th Zetor tractor landed in New Zealand.

Zetor has a well established record for performance and reliability, but this new model will make its own mark.

Zetor traditional fuel economy now lowers fuel bills even more!

Finest clean burning performance, from the first tractor manufacturer in the world with a smoke emission rating below the OECD standard!

Best parts service.

Zetor policy of inter-changeability of parts between models ensures maximum range of spares always available. The 59 tractor has a 45% compatibility of parts in a five-model range.

Fully established Zetor service centres throughout New Zealand

The 59hp 2 or 4 WD Zetor offers the best value for money in tractors today – unbeatable at the price.

Ask a satisfied owner and satisfy yourself



Engine

The new combustion chamber of the Zetor engines has been developed by a group of specialists of the Development Department of the Zetor Factory with the aim of attaining the highest efficiency of fuel at its decreased consumption at an increased power output. Improved combustion results in a reduced smoke rate of the engine and a decrease of the content of harmful combustion products in exhaust gas below the limit specified by the EEC recommendations under preparation. Zetor has replaceable cylinder liners, separate cylinder heads, an efficient full-flow centrifugal oil filter with a safety and pressure reducing valve, a pressure gauge on the instrument panel for the indication of lubricating oil pressure, and a dual filter which it is not necessary to replace until after a total

consumption of fuel of 8,000 litres. All these features together with other technical innovations have reduced servicing costs and servicing time to a minimum.

Clutch

Zetor 5911 and 5945 have a new and thoroughly tested clutch with a prolonged service life. It consists of two dry plates, one for the drive of the P.T.O. shaft and the other controlled by a Belleville washer for the tractor travel. In addition to foot clutch control, Zetor also has a hand lever dis-engagement of the P.T.O. shaft clutch independently of the tractor travel.

Gearbox

The most economical use of the engine power is made possible by the gearbox with 10 forward and 2 reverse speeds. This gearbox

incorporates a brake which brakes the layshaft on every declutching so that gear shifting is smooth and noiseless.

2 Speed P.T.O.

P.T.O. shaft with an exchangeable shaft end with six splines for 540 r.p.m. and an exchangeable shaft end with 21 involute splines. The gear shifting mechanism incorporates a lock which does not permit the use by mistake of the other speed for the respective shaft end which would result in damage to the working machine.

Engine power is transmitted in two ways:

- (a) When transmitting power from the double purpose clutch, 540 and 1,000 r.p.m. are obtained at 2,000 engine r.p.m. At the rated speed of 2,200 r.p.m., the P.T.O. shaft attains a speed of 594 or 1,100 r.p.m.



- (b) When transmitting power via the gearbox, the speed of the P.T.O. shaft can be changed according to the engaged gear. The P.T.O. shaft rotation can also be reversed by selection of reverse gear.

Brakes

The twin-pedal system of the hydraulic brakes makes it possible to brake each wheel independently or both wheels simultaneously over the pressure compensator after coupling firmly both pedals. Self-adjusters are provided for an automatic adjustment of the required brake shoe clearance. The mechanical independent band-type hand brake acts simultaneously on both wheels.

Hydraulics

The three-point linkage is vertically adjustable. It is controlled by the ZETORMATIC hydraulic control system enabling a preselection of position, power, combination of floating control, a preselection of the relieving force for the prevention of skidding, the regulation of the three-point linkage lifting rate for all types of control, and the selection of the amount of oil delivered to the outer hydraulic circuit. The ZETORMATIC hydraulic system enables the driver to use optimally the engine power, regardless of soil conditions and implements used. It saves fuel and tyres.

Selecting the regulating systems and their use

P Position control

is suitable for implements which work above ground level, e.g. fertilizer spreaders, fully mounted implements and earth boring equipment, etc. Position control for ploughs without supporting wheels is unsuitable. Position control is characterized by the fact that every position of the control lever directly corresponds to the position of the three-point linkage.

The control lever has three settings:

- position setting – used mainly for transport of implements (top 80° of quadrant)
- free setting – the links may move freely in the entire stroke range, which enables application of mounted implements, e.g., where the depth control wheel follows the surface of the field. (Middle 40° of quadrant)
- antiskid setting – resulting in an increased rear wheel adhesion caused by transfer of the implement weight. (Pressure control bottom 20° of quadrant)



M Mixed regulation

represents a combination to the two basic controls, i.e. position of implements and depths of implements in accordance with the soil resistance. Mixed regulation is well suited for application with mounted implements having variable soil resistance (i.e. packed soil). In undulating terrains with uniform soil, hilled spots are ploughed to a large depth and depressions to a smaller depth when mixed regulation is used. For this reason this regulation is well suited for levelling an uneven plot.

D Power regulation

i.e. regulation dependent upon soil resistance is used with implements not provided with any depth control wheels, giving maximum adhesion of the tractor by the entire transferred

weight of implements, weight of soil and the soil penetrating depth. The impulse on the regulating equipment is transmitted by the upper link, through the medium of the bracket, lever and torsion spring. Regulation is obtained by alteration of the bracket for fixing the top mounting link. In the case of implements with large soil resistance, the hydraulic power lift top link is connected to the lower hole.

For implements with low soil resistance the hydraulic power lift top link is connected to the upper hole. Sensitivity is regulated by means of the reaction speed control lever.

The Zetormatic regulating hydraulic power lift system gives ultimate control and efficiency in work.



Ultimate options – lavish luxury

Factory fitted fully enclosed safety quiet cab with a Decibel reading of 85. Hot water heater, radio, rearview mirror, sun visor and electric window wiper are all standard features. A C.A.S. CT2000 cab top full air conditioning unit is available as an extra on request.



Above:
Flat operator platform.

Main picture:
Air conditioned Q cab.

Top inset:
2 door, rear window and rooftop opening

Above:
Clear, wide-angle operator's eyevlew.

or beefy bushwacker

The economic Zetor 'Mini' log skidder, nicknamed the 'Bushwacker' is equipped with a power winch, front dozer blade, fully bush rigged with approved operator protection frame, steel sump guard, extra heavy duty steel rear wheelguards and all round tyre protector wheel rims.

These units have already been working in NZ forests for a number of years on log thinning operations and have gained a reputation as high output performers.

'Bushwackers' can be custom built to customer specifications.

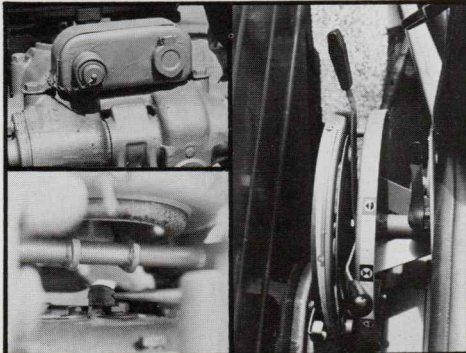
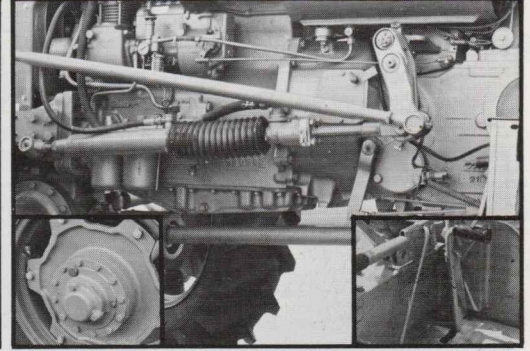
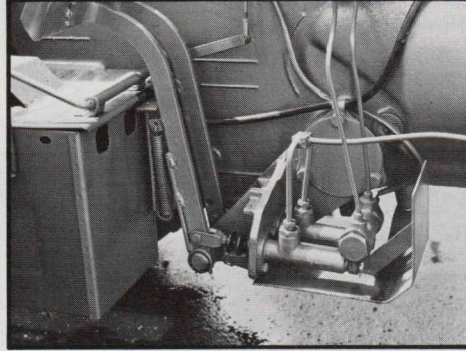
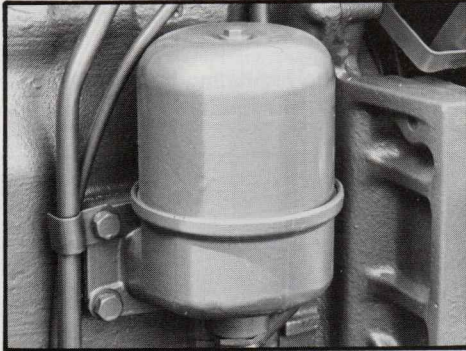
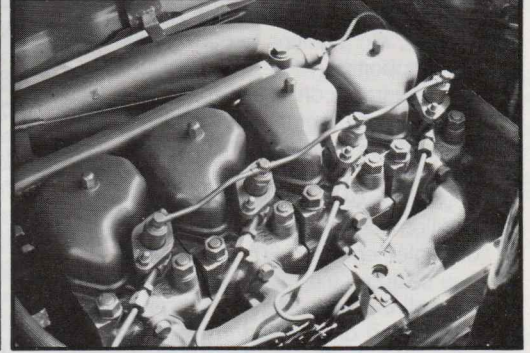
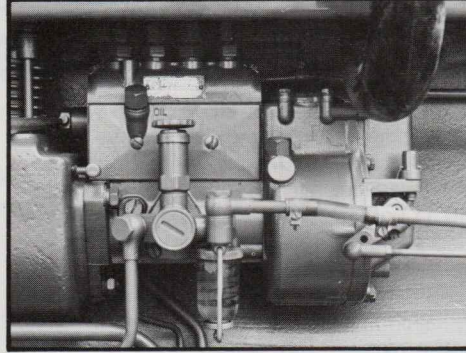
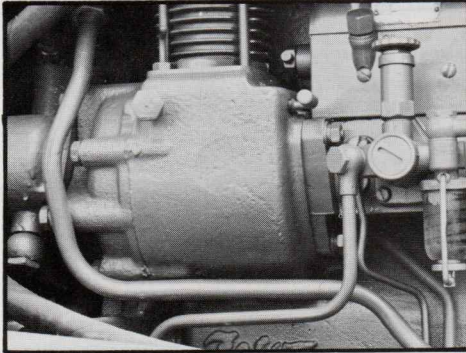
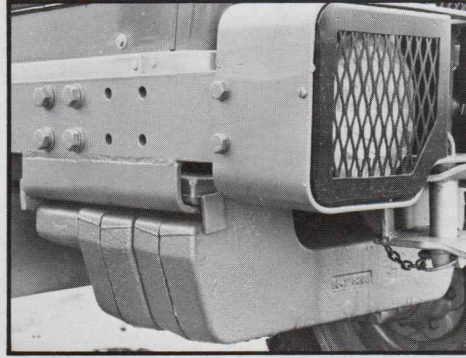


Zetor's unique impressive features

1. Independent front wheel suspension on 2 WD gives increased driver comfort working rough ground. Fully lockable for front-end loader work.
2. Front-end weights, headlamp protection guards and front toe bar are features which speak for themselves.

3. Renowned Donaldson dry element and pre-cleaner air filtration system gives maximum engine protection even in extreme dusty conditions.
4. Air compressor which can be engaged or disengaged as required has a capacity output of 2½ cu.ft/min at maximum pressure of 85 p.s.i. Ideal for pumping tyres and spray-gun or hand tool operation.
5. Excess fuel button on fuel pump gives instant starting even on extremely cold mornings. The hand operated fuel delivery pump plus return line to fuel tank makes bleeding a no-fuss easy operation.
6. Individual cylinder heads give quicker heat dissipation, tighter gasket seal and makes maintenance easy.
7. The highly efficient centrifugal engine oil filter spins at up to 8,000 rpm with all oil passing through the filter every 45 seconds. Filter never needs replacing, only cleaned at normal service intervals.
8. Hydraulic operated independent foot brakes are self adjusting and self equalising

- to give smooth and effective braking every time.
9. The heavy duty cast front driving axle with centrally located diff housing and prop shaft gives good high ground clearance and pivots to an angle of 15°. The unit also features epicyclic reduction hubs and on the move engagement.
 10. ZETORMATIC hydraulics rank among the foremost of tractor power-lift systems available giving draft, pressure and position control of 3 point linkage and independent operation of two single or one double acting ram with oil flow control to both systems.
 11. Super grip Barum tyres coupled with Zetor's long wheel base and superb power to weight ratio have proved to be an unbeatable combination at N.Z. Tractor Pulling Competitions.
 12. Comprehensive toolkits are supplied with all new tractors providing the proper tools for easy on the farm do it yourself routine service and maintenance duties.



ZETOR tractors are continuously improved and therefore their manufacturer reserves the right to change general information, specifications and lists of standard and optional equipment contained in this prospectus whenever necessary and without previous notice.

Manufacturer:
ZETOR Brno,
Czechoslovakia



Exclusive exporter:
MOTOKOV
Praha, Czechoslovakia

MOTOKOV

Specifications:

Main specifications of tractors Z 5911 Z 5945 (length in mm, weight in kg, force in N)

Engine
Power Class : 43 Kw (59 HP)
Type : ZETOR 5901
Fuel : Diesel Oil
Combustion Chamber Type : TOROIDAL
Number of cylinders : 4
Swept Volume : 3595cc (219 cu.in)
Bore/Stroke : 100/110mm
Rated Speed : 2200 rpm
Max Torque : 203 Nm @ 1500 rpm (150 lbs/ft)
Compression Ratio : 17:1
Specific Fuel Consumption : 252 gr/Kw-hour (185 gr/HP-hour)

Air Cleaner
External mounted Donaldson pre-cleaner PBH00-0236 Donaldson paper element cleaner FWA 06-8004

Clutch
Dual 280mm (11") diameter dry plates for transmission and PTO operated by single two stage pedal which can be altered to single stage for transmission only resulting in reduced pedal pressure. Live PTO with independent hand operated lever.

Transmission
Sliding spur gears with reduction gear giving 10 forward and 2 reverse gears. Transmission brake is activated by clutch pedal to make on the move gear changes smooth and noiseless. Travel speeds at rated 2200 rpm.

High ratio

1st Gear	4.35 Km/h	(No.5 Speed)
2nd Gear	6.47 Km/h	(No.7 Speed)
3rd Gear	9.01 Km/h	(No.8 Speed)
4th Gear	13.83 Km/h	(No.9 Speed)
5th Gear	23.07 Km/h	(Top Speed)

Low ratio 4.2762:1

1st Gear	1.02 Km/h	(No.1 Speed)
2nd Gear	1.52 Km/h	(No.2 Speed)
3rd Gear	2.11 Km/h	(No.3 Speed)
4th Gear	3.24 Km/h	(No.4 Speed)
5th Gear	5.40 Km/h	(No.6 Speed)

An efficient gear range made more versatile with overlap in ratios. Reverse Speeds : High ratio 5.67Km/h - Low ratio 1.33 Km/h. Final Drive : Spur Gear Differential Lock.

Steering
Unilateral circulating ball type power assisted. Gear driven pump delivering 20 litres/min @ max pressure of 80 AT (1200 lbs/in²).

Power take off
2 speed 540 @ 1000 with exchangeable 6 and 21 spline shaft ends. Speeds attained at 2000 engine rpm. Independent live drive system with dependent 4:1 ground drive ratio.

P.T.O. RPM Through Gearbox with Tractor at standstill and at rated 2200 engine RPM.

1st Gear	: 250.4 RPM
2nd Gear	: 372.7 RPM
3rd Gear	: 519.3 RPM
4th Gear	: 797.2 RPM
5th Gear	: 1331.6 RPM
Reverse Gear	: 326.8 RPM

Above function is ideal for operating belt pulleys or saw benches with reverse rotation having the ability to unwind stuck post hole borers.

Hydraulics
Draft control
Semi-draft control
Position control
Pressure control
Double outer circuits outlets
Max operating pressure 12MPa (120KP/sq.cm) (2134 lbs/in²)
Max lift at ball joints 16 KN (1600 KP) (3748 lbs)
Pump capacity at 540 PTO speed 20 l/min (4.4 gals/min)
Pump capacity at 1000 PTO speed 38 l/min (8.4 gals/min)

Brakes
Hydraulic drum type internal expanding shoes foot brakes self adjusting with built in equaliser.
Mechanical independent band type hand brake operating on outer diameter of footbrake drum.

Front wheel drive
Central mechanical propshaft drive via transfer box to front differential. The heavy duty cast front housing carries the axle shafts reduction hubs having a ratio of 5.18:1.

Electrical
Battery : 12v/88 amp hour
Alternator : 14v/35 amp
Starter (Bosch) 12v/2.9 Kw
Lighting System: 12v Headlamps, park lights, flashers, stop and tail lights, plough lamp, reflectors, and trailer plug.
Equipment : Ammeter, horn.

Capacities
Engine Oil : 12 litres
Coolant : 13 litres
Gearbox & transfer box : 25 litres
Final drive : 2 x 1.9 litres
Steering box : 1.9 litres
Power assisted steer : 4 litres
Fuel tank -
with Cab : 67 litres
without cab : 76 litres

Wheels and tyres
Front 2 WD : 7.50 x 16 - 4 Wd : 11.2/10 x 24
Rear 2 & 4 WD 16.9/14 x 28

	5911	5945
Tyre size	7.50-16	11.2/10-24
	16.9/14-28	16.9/14-28
Main Dimensions (mm) (permissible tolerance ±2%)		
Overall length without coupling linkage with cab	3655	3655
without cab	3655	3655
Overall length with coupling linkage	3720	3720
Width at rear wheel track 1425 mm without ballast weights	1800	1950
with ballast weights	1848	1980
Height up to the steering wheel upper border with cab	1888	1855
without cab	1848	1815
Height to upper exhaust mouth with cab	2538	2493
without cab	2048	2003
Ground clearance without coupling linkage	480	
with coupling linkage	392	329
Height of P.T.O. shaft	748	685
Front wheel track adjustable standard track	1430; 1655; 1805	1510 fixed
Rear wheel track (adjustable every 75 mm) standard track	1425-1800	
Wheel base	2247	
Outer overall dia of curving with braking of one wheel with cab	7500+500	8500+500
without cab	7500+500	8500+500
Max. tractor height with cab	2538	2475
Weights (kg) (permissible tolerance ±5%)		
Dry (constructional) weight - type with hydraulic power lift unit and coupling linkage without ballast weights with cab	2900	3260
without cab	2650	3010
Travel ready weight without ballast weights (tractor without driver) with hydraulic power lift unit and coupling linkage with cab	3000	3370
without cab	2750	3120
of which - front axle weight with cab	1020	1430
without cab	970	1325
- rear axle weight with cab	1980	1940
without cab	1780	1795
Max. weight of front additional ballast weights with cab	160	
without cab	160	
Max. weight of rear additional ballast weight with cab	340	
without cab	340	
Water charge in rear tyres (KG)	2X220	2X220
Max. Permissible Load Capacities (kg)		
Front drive axle at max. speed of 25 km/h (inflating 0,17 MPa)		2000
6 km/h		3000
Front unsprung axle - track 1430 at max. speed of 25km/h	1500	
6 km/h (inflating 0,275 MPa)	2980	
Front sprung axle - track 1430 at max. speed of 25 km/h	1100; locked up	1500
6 km/h		2200
Rear axle - track 1425 at max. speed of 25 Km/h		3600
20 km/h		3600
6 km/h		3600

Farm better with Zetor

there's no comparison

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Motor Holdings (Wholesale) Ltd

Phone 276.5146
Telex Mothold NZ 2806

Private Bag
Auckland

Your local dealer

WAITAKI TRACTORS & MACHINERY LTD

10 EDEN ST
P.O. Box 258

QAMARU
Phone 37-355

