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PONSSE

PONSSE Wisent 03/08 3. ENG

WISENT
FORWARDER



WISENT

PONSSE Wisent is the answer to the expectations of the whole timber supply chain. Created based on the needs of our clients and partners, PONSSE Wisent follows in the tire tracks of the legendary PONSSE

S15 as a pioneer of its own era, thanks to both its light weight and maneuverability. By combining new, carefully selected materials with the possibilities offered by modern production technology and better qual-

ity components, we have created a more economical and efficient machine than ever for various conditions that in particular boasts improved reliability. The pressure on the ground is minimized thanks to

the unbeatable proportion of net weight and load-carrying capacity, as well as the dimensions that distribute the load evenly on all wheels. With its unparalleled turning radius in this size range and the over 16 t

traction, Wisent is an excellent general-purpose machine that is sure to bring the load home even in the most difficult conditions both in thinnings and clear fellings.

1. Wisent is powered by a Mercedes-Benz OM904LA diesel engine, which opens up a new era in the fuel economy and emission levels of forestry machines. Turbo charged and with modern air-to-air inter-cooling technology, it yields top performances (129 kW) even with smaller cylinder volumes. Thanks to its electronic control system, the watercooled, four-cylinder engine provides an optimal torque for each range of operating revs (675 Nm/1,200-1,600 rpm). The cylinder-specific high pressure fuel injection results in an extremely clean burning of the fuel. The engine complies with EUROMOT3A, EPA3 and Tier3 emission limits.

2. The new working lights essentially improve the efficiency of working in the dark. The new lighting technique of the cabin, crane and rear frame and the absence of plex glass in the lights result in excellent luminosity and an optimal beam. Gas-discharge lights are available as optional equipment.

3. The new location of the valve block and the routing of hydraulic pipes to the crane efficiently minimize strain on hoses and connectors. The lower loop cushions movements of the middle joint and the higher of the crane decrease strain on individual hoses. This considerably extends the service life of the components. The valve block is efficiently protected against external strain.

4. The high ground clearance makes it easy to overcome obstacles. The base structure is as even as possible.

5. The toothed rack type frame lock made from specially reinforced moulded material is extremely reliable.

6. Wisent's strong K70+™ S/M crane provides substantial power for loading. The totally re-equipped K70+ crane is based on technological solutions that have been tested and found reliable over the years. Its 7-, 9- or 10-meter reach, 106 kN lifting moment and a seamless interface with the OptiControl control system add to Wisent's efficiency and cost-effectiveness.

7. The large pump (145 cm³) enables efficient crane work even on low operating revs. Special attention has been given to the cooling and filtering of hydraulic oil. Due to the new filtering technology and the separate cooling circulation independent of the work motions, the excellent level of hydraulic oil quality and cleanliness can be maintained at all times. Warming and fuel consumption is further reduced by the minimization of pressure losses in the whole system.

8. The two sections of the back frame permit the customers to select their ideal load space length. As required, the machine can also be equipped with a tilting crane stand, winch and clamp bunk.

9. Wisent is equipped with a new type of durable bogie axles and wide 26,5" balloon tires. The varied customer requirements have been considered in the tires, as Wisent is also available as a six-wheel model.

10. Wisent's hydrostatic drive transmission is part of the PONSSE OptiControl system. In addition to a conventional constant speed setting, the operator can select from three different drive modes according to the prevailing conditions. By selecting a suitable drive mode, the operator can minimize fuel consumption and optimize the drive performance in various terrains and weather conditions. The 16 t tractive force guarantees effortless and smooth progress even in difficult conditions.

11. The sturdy frame joint is made with high strength construction iron, and it features solutions that have over the years proved reliable and user-friendly. The joint can be tightened to prevent it from loosening, and the cushioned control cylinders together with the 44 degree steering angle for extremely effortless driving.



PONSSE ERGONOMICS

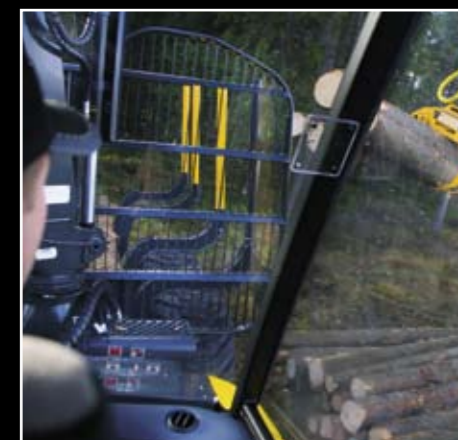
In Wisent's design, special attention was also paid to the ease of servicing. The measurement, lubrication and inspection points were centralized so that they are easy to find. The various working platforms, anti-slip devices and grip handles make working around the machine safe and easy. The easy-to-open side pontoons and side buffers offer plenty of storage space for example for tools and spare parts.

The cabin of PONSSE Wisent offers a grandstand view of the latest in forestry machine technology. It is the working environment of a professional who appreciates top class comfort, security and ergonomics. Wisent's combination meter was integrated in the OptiControl system, allowing the operator complete con-

centration on his work while the system takes care of controlling machine functions. When required, the system notifies the operator of any abnormal readings. This technique totally devoid of instrument panels has made it possible to perfect the overall clarity of the cabin, the finishing touches being contributed by the positioning and de-

sign of the control devices and the air conditioning and heating systems designed for extreme conditions. All important switches are located close to the control levers. The exceptionally large PONSSE cabin complies with all required ISO safety standards. The thick, hardened polycarbonate panes were designed to with-

stand even hard impacts, and the convex shape of the panes together with the narrow pillars means unobstructed view to all directions. The glue attachment of the panes minimizes vibrations and together with the new silencer technology makes the PONSSE cabin an extremely silent working environment.





PIONEER

At the heart of all new PONSSE models is OptiControl™, the integrated control system. Extremely user-friendly OptiControl integrates all components relevant to controlling the machine, such as the crane, the drive transmission and the diesel engine, into one, manageable whole. All measurements and adjustments made by OptiControl are easily viewed on a clear display.

OptiControl controls modern diesel technology, managing to combine cost-efficiency, reliability and environmental friendliness. The system continuously supervises machine functions and requests from the diesel engine exactly the right amount of power necessary in each loading situation. PONSSE Wisent is an efficient unit for extremely versatile harvesting.



TECHNICAL DATA

DIMENSIONS

Length:	8,800 - 9,400 mm (+620 mm extension) 346-370 pouces (+24 pouces extension)
Width:	2610 mm - 2820 mm (103 - 111 in.)
Transport height:	3750 mm (148 in.)
Ground clearance:	645 mm (25 in.)
Net weight:	6 wheels 12,700 kg (27,999 lbs) depending on equipment 8 wheels 14,100 kg (31,085 lbs) (depending on equipment)

LOADING CAPACITY

Carrying capacity:	12,000 kg (26,455 lbs)
Load space cross-section:	4,0 - 4,8 m ² (37 - 45 sq ft)
Load space length:	4,250 - 5,470 mm 167 - 215 in.

ENGINE

Type:	Mercedes-Benz OM904LA
Power:	129 kW
Torque:	675 Nm (497 ft. lb.)(1,200 - 1,600 rpm)
Tractive force:	160 kN (36,000 lbf.)
Fuel tank volume:	130 l (34 gallons)

TRANSMISSION

	Hydrostatic-mechanical transmission 2 speed ranges forward and reverse. Electronic operation automatics, OptiControl. Rear drive release, Differential lock: mechanical in both bogie units
Driving speed:	1st gear: 0 - 9 km/h (0 - 6 mph) 2nd gear: 0-28 km/h (0 - 17 mph)

AXELS

Front:	Axle equipped with differential lock and planetary gear (6 wheels) of gear driven bogies (8 wheels)
Rear:	Bogie axle with gear wheel reduction equipped with planetary gear and differential lock

GEARS

6 wheels	Front 600/700 - 34 Rear 600/700/710 - 26,5
8 wheels	Front and rear 600/700/710 - 26,5

HYDRAULIC SYSTEM

	OptiControl Load sensing system Separate filtering and cooling circulation
Crane pump:	145 cm ³ (8.54 cu. in.)
Hydraulic oil tank volume:	130 l (34 gallons)

STEERING

	Mini steering wheel / stepless push button steering
Articulated steering, steering angle:	± 44°
Outer turning radius:	6 wheels 7.4 m (24 feet), 8 wheels 7.5 m (25 feet)

BRAKES

Drive brake:	Hydraulic multi-disc brakes front and rear
Parking brake:	Spring loaded
Working brake:	Acts on front and rear brakes

ELECTRIC SYSTEM

Voltage:	24 V
Batteries:	2 x 180 Ah
Alternator:	2 x 80 A
Working lights:	max. 28 x 70 W

CABIN

	Tilting safety cabin, air-conditioned Complies with all required safety standards
Windows:	Polycarbonate
Seat:	Bege 9000 SE with head support

CRANE

Type:	PONSSE K70+M/S
Reach:	7.9 m (26 feet, model S), 10.0 m (33 feet, model M)
Lifting moment:	106 kNm (78,180 lb-ft)
Swivel moment:	24.5 kNm (18,000 lb-ft)
Turning angle:	360°

GRAPPLE

Type:	PONSSE, Vahva, Cranab, Hultdins, Loglift
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STANDARD EQUIPMENT

	Digital PONSSE OptiControl system which controls all machine functions
	Cabin without combination meter
	Odometer (OptiControl)
	Fuel heater; 9 kW
	Air conditioner
	MP3 player
	Mini levels
	Seat heater
	Antiglare shield curtain
	Fire extinguishers, 2 pcs
	Hydraulic steps
	Vacuum pump
	Reverse light and working light

OPTIONAL EQUIPMENT

	OptiPC (location and data transfer system, reverse mode camera etc.)
	Tracks, chains
	Central lubrication system of crane
	Central lubrication system
	Fuel and hydraulic oil filling pumps
	Fire extinguishing system
	Sliding load space extension

In addition to the versatile range of standard accessories included in PONSSE Gazelle, a wide list of other accessories is available. Ask your closest dealer for more information.

The manufacturer reserves the right to make technical changes and improvements.